Superintendent’s Message

Fresno Unified School District’s High School Course Guide is one of the most important publications released by the District each year. Each school site offers a wealth of options for you to choose from as you prepare for your future college and career endeavors. I encourage you to read through the guide carefully, paying close attention to each course description, to ensure that you select classes that best support your future goals. Be sure to allow your family to offer input as you make your decisions as they may be able to offer some vital insight.

The course selections you make today will impact your future in ways you may never imagine. Take your time during this process and seek input from not only your family, but your teachers and school guidance counselors as well. They will help you determine if the courses you’d like to take are the courses that will best prepare you for your future in college and/or career. I also challenge you to enroll in as many AP courses and Career Technical pathways as you select your courses for the upcoming school year. In addition to a rigorous course schedule, I encourage you to take full advantage of the growing number of arts-related course offerings and extra-curricular activities at your school. Participation in the arts, clubs, sports and other extra-curricular activities helps create a well-rounded high school experience that you will benefit from well after you’ve graduated.

Enjoy the rest of the school year and stay on track to graduate. You have the support of your family, teachers and many others who are there to guide you through your journey. The opportunities are endless. Believe in yourself, pursue your passion and strive to be the best!

Michael E. Hanson
Superintendent

NON-DISCRIMINATION IN DISTRICT PROGRAMS AND ACTIVITIES (BP 0410)

The Governing Board is committed to equal opportunity for all individuals in education. All aspects of the District’s school environment, including all academic, extra-curricular and school-sponsored programs, activities and practices shall be free from harassment, intimidation, and discrimination based on sex, race, color, religion ancestry, national origin, ethnic group identification, age, marital or parental status, physical or mental disability, sex, sexual orientation, gender, gender identity or expression or genetic information; the perception of one or more of such characteristics; or association with a person or group with one or more of these actual or perceived characteristics.

The Superintendent or designee shall review district programs and activities to ensure the removal of any barrier that may unlawfully prevent an individual or group in any of the protected categories stated above from accessing district programs and activities, including the use of facilities. He/she shall take prompt, reasonable actions to remove any identified barrier.

The Full Policy can be found at http://www.fresnounified.org/board/policies/Policies/fusd/displaypolicy/144104/0.htm
# Table of Contents

## PLANNING FOR CAREER & COLLEGE 3
- Graduation Requirements 3
- Overview 3
- High School Contact Information 3
- a-g Requirements 4
- History/Social Science 4
- English 4
- Mathematics 4
- Laboratory Science 4
- Language Other Than English (LOTE) 4
- Visual and Performing Arts (VAPA) 4
- College Preparatory Elective 4
- Computing Grade Point Averages (GPA) 4
- California Higher Education Opportunities 5
- NCAA Eligibility 6
- Core Courses 6
- Test Scores 6
- Grade Point Average 6
- College Entrance Exams 6

## TESTING 7
- CAASPP Program 7
- Smarter Balanced Tests 7
- Early Assessment Program (EAP) 7
- CELDT Program 7
- California High School Proficiency Examination 7

## PROGRAMS 7
- Advanced Placement (AP) 7
- Alternative Education 7
- Fresno Adult School (FAS) 8
- Dual Enrollment 8
- Unitrack 8
- AVID 8
- Career Readiness / ROP 8
- English Learners 8
- Expanded Learning 9
- After School Program 9
- Activities 9
- Online Learning 9
- Summer School 9
- Honors & GATE 9
- Seal of Biliteracy 9
- International Baccalaureate 9

## Migrant Education 9
- Special Education 9

## PARENT RESOURCES 10
- ATLAS 10
- Challenging Courses by Examination 10
- Parent University 10
- Property Fabricated by Students 10
- Report Cards 10
- Student in Danger of Failing a Course 10
- Title IX of the Educational Amendment 11
- The Parent And Child Education (PACE) Program 11
- Transfer Process 11
- Withdrawal Failure 11

## COURSE DESCRIPTIONS 12
- Course Title Description Codes 12
- Articulated Courses 12
- School Name Abbreviations 12
- Career Technical Education 12
- Agriculture & Natural Resources 12
- Arts, Media & Entertainment 13
- Building & Construction Trades 15
- Business & Finance 15
- Education, Child Development 16
- Energy, Environment, & Utilities 17
- Engineering & Architecture 18
- Fashion & Interior Design 19
- Health Science & Medical Technology 19
- Hospitality, Tourism & Recreation 22
- Information & Communication Technologies 22
- Manufacturing and Product Development 23
- Marketing, Sales & Services 23
- Public Services 25
- Transportation 26
- English 26
- English Language Development (ELD) 29
- History / Social Science 30

## Language Other Than English 33
- Mathematics 37
- Physical Education (pe) 38
- Science 40
- Visual & Performing Arts 44
- Musical arts / Dance 44
- Theatrical arts 48
- Visual Arts 49
- Specialty Courses 51
- Center for Advanced Research & Technology (CART) 54

## APPENDIX 57
- a-g Course List 57
- College & Career Centers 58
- Linked Learning 59
- High School Pathways & Programs 60
- Spanish Translation 70
- Hmong Translation 82
- Educational Planning Guide 94
Board Adopted Core Beliefs

**STUDENT LEARNING**
Every student can and must learn at grade level and beyond.

**HIGH QUALITY INSTRUCTION**
Teachers must demonstrate the ability and desire to educate each child at a high level.

**LEADERSHIP**
Leaders must perform courageously and ethically to accomplish stated goals.

**SAFETY**
A safe learning and working environment is crucial to student learning.

**CULTURE**
Fresno Unified is a place where:
- Diversity is valued;
- Educational excellence and equity is expected;
- Individual responsibility and participation by all is required;
- Collaborative adult relationships are essential; and
- Parents, students, and the community as a whole are vital partners.

Board Adopted Commitments

**STUDENT LEARNING**
We will provide all students access to high quality options and a variety of activities. We will implement, continue, or expand practices proven to raise student achievement; and eliminate practices that do not.

**HIGH QUALITY INSTRUCTION**
We expect all students to achieve their personal best; differences in achievement among socio-economic and ethnic groups are not acceptable. We expect effective teacher performance toward desired results.

**LEADERSHIP**
We will require the timely delivery of high quality services to every site. We will sustain and monitor a financial plan that ensures the viability of the district. We will provide clear expectations and regularly support professional growth.

**SAFETY**
We will provide a safe, clean, and orderly learning and working environment.

**CULTURE**
We will establish collaborative relationships with staff, parents, students, and the community. We strongly encourage and welcome the valuable contributions of our families. We expect and depend upon individual responsibility.

Board Adopted Goals

The purpose of the four Fresno Unified School District Goals is to give the District direction to improve student outcomes. To accomplish the four District goals, it is expected that all students will be in school, on time and ready to learn every day.

- All students will excel in reading, writing, and math
- All students will engage in arts, activities, and athletics
- All students will demonstrate the character and competencies for workplace success
- All students will stay in school on target to graduate

PARENTS:
If you need assistance using this guide, please schedule an appointment with your child’s counselor. Translation will be available upon request.

Disclaimer: Not all course offerings are available at all sites and during all semesters. Check with your school for specific offerings for the upcoming semester.

PADRES:
Si ustedes necesitan asistencia para usar esta guía, por favor hagan una cita con el consejero(a) de su estudiante. Habrá intérpretes disponibles en cuanto lo soliciten.

Rectificación: No todos los cursos que se ofrecen están disponibles en todas las escuelas y durante todos los semesters. Verifique con la escuela en relación a cursos específicos que se ofrecen para el próximo semestre.

COV NIAM TXIV:
Yog tias koj xav tau kev siv daim ntawv qhia ntawm no, thov teem ib lub caij nrog koj tus me nyuam tus “counselor”. Yuav muaj neeg txhais lus thaum thov txog.

Lus Ceeb Toom: Tsis yog txhua chav qhib muaj yuav muaj nyob rau txhua lub chaw kawm thiab nyob rau txhua lub ncua sij hawm kawm. Xyuas nrog koj lub bsev kawm ntawv rau tej yam qhib muaj ntsees rau lub ncua sij hawm kawm ntawv yuav los.
OVERVIEW

Central to the philosophy of the Fresno Unified School District is the belief that every individual can learn. Inherent in this belief is our responsibility to prepare each student for a productive future while fostering an understanding of his/her heritage. In supporting the core beliefs established by the school Board, our high schools promote academic rigor, high quality instruction, leadership, a safe and secure environment, and community. Each high school provides the environment to meet the educational and social demands of a diverse population, instructional and extracurricular programs, and utilizes the resources of home, school, and community to meet the present needs and interests of students. The total school process prepares all students for the challenge of the future in a complex world.

This High School Guide to Course Offerings describes the Fresno Unified School District’s course offerings for the 2016-2017 school year. This catalog provides basic planning information so students and parents can develop a class schedule. Included in this booklet are the current Fresno Unified graduation requirements as well as UC/CSU admission requirements and NCAA eligibility standards.

Using these resources and with the support of their parents and counselor, students will be able to design their course schedule for the upcoming school year. Fresno Unified students are encouraged to select classes that are both interesting and challenging to them. Students should select courses that will best prepare them for post-secondary experiences and options. Each high school counseling staff is ready to assist students and parents in the development of a personalized four-year plan. The Fresno Unified School District’s commitment to parent involvement encourages and welcomes the continuous participation of parents during this planning process and throughout their student’s high school years. Parents are vital partners in their student’s high school success. Please call upon your school’s educational staff whenever you are in need of assistance and for the most current course offerings.

PLANNING FOR CAREER & COLLEGE

GRADUATION REQUIREMENTS
FOR COMPREHENSIVE & ALTERNATIVE HIGH SCHOOLS

A total of 230 units of credit must be earned. Normally five (5) units are granted for successfully (D or better) completing each semester of each course.

- By the end of 9th grade, a student should have completed 60 units
- By the end of 10th grade, a student should have completed 120 units
- By the end of the 11th grade, a student should have completed 170 units

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Number of units per subject area</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts</td>
<td>40 units</td>
</tr>
<tr>
<td>Modern World History</td>
<td>10 units</td>
</tr>
<tr>
<td>United States History</td>
<td>10 units</td>
</tr>
<tr>
<td>American Government</td>
<td>5 units</td>
</tr>
<tr>
<td>Economics</td>
<td>5 units</td>
</tr>
<tr>
<td>Biological Science</td>
<td>10 units</td>
</tr>
<tr>
<td>Physical Science</td>
<td>10 units</td>
</tr>
<tr>
<td>Biological or Physical Science</td>
<td>10 units</td>
</tr>
<tr>
<td>Algebra</td>
<td>10 units</td>
</tr>
<tr>
<td>Geometry</td>
<td>10 units</td>
</tr>
<tr>
<td>Mathematics</td>
<td>10 units</td>
</tr>
<tr>
<td>Physical Education</td>
<td>20 units</td>
</tr>
<tr>
<td>Fine Arts or Foreign Language</td>
<td>10 units</td>
</tr>
<tr>
<td>Electives</td>
<td>70 units</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>230 units</strong></td>
</tr>
</tbody>
</table>

2016–2017 HIGH SCHOOL COURSE GUIDE
### a-g REQUIREMENTS

The University of California and the California State University systems have laid out a plan for the courses a student needs to take for acceptance into those university systems. This includes:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Years Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a History/Social Science</strong></td>
<td>2 years</td>
</tr>
<tr>
<td>Including one year of world history, cultures, and geography; and one year of U.S. History or one-half year of U.S. History and one-half year of Civics or American Government</td>
<td></td>
</tr>
<tr>
<td><strong>b English</strong></td>
<td>4 years</td>
</tr>
<tr>
<td>College-preparatory English that includes frequent and regular writing, and reading of classic and modern literature. No more than one year of ESL-type courses can be used to meet this requirement. Not more than two semesters of 9th grade English can be used to meet this requirement.</td>
<td></td>
</tr>
<tr>
<td><strong>c Mathematics</strong></td>
<td>3 years (4 years recommended)</td>
</tr>
<tr>
<td>College-preparatory mathematics that includes the topics covered in elementary and advanced algebra and two- and three-dimensional geometry. Approved integrated math courses may be used to fulfill part or all of this requirement, as may math courses taken in the seventh and eighth grades that your high school accepts as equivalent to its own math courses.</td>
<td></td>
</tr>
<tr>
<td><strong>d Laboratory Science</strong></td>
<td>2 years required (3 years recommended)</td>
</tr>
<tr>
<td>Fundamental knowledge in at least two of these three foundational subjects: biology, chemistry, and physics. Advanced laboratory science courses that have biology, chemistry, or physics as prerequisites and offer substantial new material may be used to fulfill this requirement. The last two years of an approved three-year integrated science program that provides rigorous coverage of at least two of the three foundational subjects may be used to fulfill this requirement.</td>
<td></td>
</tr>
<tr>
<td><strong>e Language Other Than English (LOTE)</strong></td>
<td>2 years (3 years recommended)</td>
</tr>
<tr>
<td>Courses should emphasize speaking and understanding, and include instruction in grammar, vocabulary, reading, composition, and culture. Courses in languages other than English taken in the seventh and eighth grades may be used to fulfill part of this requirement if your high school accepts them as equivalent to its own courses.</td>
<td></td>
</tr>
<tr>
<td><strong>f Visual and Performing Arts (VAPA)</strong></td>
<td>1 year</td>
</tr>
<tr>
<td>Approved arts course from a single VAPA discipline (dance, drama/theater, music, or visual art).</td>
<td></td>
</tr>
<tr>
<td><strong>g College Preparatory Elective</strong></td>
<td>1 year</td>
</tr>
<tr>
<td>In addition to those required in a-f above, chosen from the following areas; visual and performing arts (non-introductory level courses), history, social science, English, advanced mathematics, laboratory science, and language other than English (a third year in the language used for the e requirement or two years of another language or courses approved for use as &quot;g&quot; electives.</td>
<td></td>
</tr>
</tbody>
</table>

### COMPUTING GRADE POINT AVERAGES (GPA)

In order to determine grade point average, assign each letter grade a number using the grade points below. Add up those numbers. Divide those numbers by the number of courses. The result of this division will be your student's GPA.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

**Example GPA Calculation:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Summer</th>
<th>Total Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 11</td>
<td>A</td>
<td>B</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Chemistry</td>
<td>B</td>
<td>B</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>U.S. History</td>
<td>B</td>
<td>B</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Art 2</td>
<td>A</td>
<td>A</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Trig</td>
<td>C</td>
<td>C</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Geometry</td>
<td>B</td>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Courses: 5

Student GPA: 36/11 = 3.27
## California Higher Education Opportunities

### Community College

| Number of: | Approximately 107 statewide |
| Schools: | Fresno City, Willow International, Reedley, College of the Sequoias, West Hills, Merced |
| Length: | Two years |
| Course Work: | Career and job-entry majors. Transfer credits to four-year educational institutions. |
| Degree or Certificates: | Vocational certificates. Associate of Arts. Associate of Science. |
| Costs (Tuition & books): | Varies based on budget |
| Website: | [http://www.cccco.edu](http://www.cccco.edu) |

### Admissions Requirements

- **Core Subject Requirements**: There are no subject requirements.
- **Grade Point Average (GPA)**: There is no minimum GPA requirement.
- **Educational Background**: You must be at least 18 years old or a high school graduate.
- **Assessments**: Placement tests for English and mathematics.

### California State University

| Number of: | Twenty-three (23) statewide, accepting the top one-third of the graduates. |
| Schools: | CSU Fresno, CSU Bakersfield, CSU Stanislaus, Cal Poly San Luis Obispo |
| Length: | Four years |
| Course Work: | Pre-professional training. Various majors. |
| Degrees: | Bachelor of Arts. Bachelor of Science. Various master’s degrees. Teaching credentials. |
| Costs (Tuition & books): | Varies based upon budget factors. |
| Website: | [http://www.csumentor.edu](http://www.csumentor.edu) |

### Admissions Requirements

- **Core Subject Requirements**: These requirements are the same as the University of California. See UC core subject requirements.
- **Grade Point Average (GPA)**: Students should maintain at least a grade point average of “C” or better. GPA is combined with SAT I or ACT scores to determine eligibility.
- **Educational Background**: Graduate from high school or hold a valid California High School Proficiency Examination Certificate and meet the core subject requirements.
- **Assessments**: American College Test (ACT) and/or Scholastic Assessment Test (SAT: Reasoning).

### University of California

| Number of: | Nine (9) undergraduate statewide, accepting the top 12.5% of the graduates. |
| Schools: | Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, Santa Barbara, Santa Cruz |
| Length: | Four years |
| Course Work: | Pre-professional training. Various majors. |
| Degrees: | Bachelor of Arts. Bachelor of Science. Various master’s degrees. Various doctorate degrees. |
| Costs (Tuition & books): | Varies based on budget factors. |
| Website: | [http://www.universityofcalifornia.edu/admissions](http://www.universityofcalifornia.edu/admissions) |

### Admissions Requirements

- **CORE SUBJECT REQUIREMENTS**
  - (a) History/Social Science – 2 years to include World History, U.S. History, and/or ½ year of government and ½ year of economics.
  - (b) English – 4 years of college preparatory
  - (c) Mathematics – 3 years through Algebra 2 (4 years recommended)
  - (d) Science – 2 years of a lab science to include 2 of 3 disciplines of biology, chemistry, or physics (3 years recommended)
  - (e) Foreign Language – 2 years of the same language (3 years recommended)
  - (f) Visual & Performing Arts – 1 year of college preparatory
  - (g) Electives – 1 year from one of the above areas
- **Grade Point Average (GPA)**: Students should maintain at least a grade point average of “B” or better. GPA is combined with test scores to determine eligibility.
- **Educational Background**: Graduate from high school or hold a valid California High School Proficiency Examination Certificate and meet the core subject requirements.
- **Assessments**: American College Test (ACT), Scholastic Aptitude Test (SAT: Reasoning), Scholastic Aptitude Test (SAT 2: Subject area test in math, English composition, and an elective area).

### Private Colleges and Universities

| Number of: | Approximately 112 statewide |
| Schools: | Fresno Pacific University, University of Southern California, Pepperdine, University of the Pacific, Stanford, Claremont Colleges |
| Length: | Four years |
| Course Work: | Curriculum, programs, and professional programs vary according to the size or specialty of the college/university. |
| Degrees: | BA/BS, but may offer up to a doctorate |
| Costs (Tuition & books): | Approximately $10,000–$40,000 per year. |

### Admission Requirements

Admission requirements vary by college or university. Usually students have met or exceeded the UC core subject requirements and assessment requirements.
NCAA ELIGIBILITY

Introductory information is available below on NCAA and eligibility for student-athletes. For additional information, particularly with regard to GPA requirements, see http://www.eligibilitycenter.org.

CORE COURSES

- NCAA Division will require 16 core courses for students enrolling on or after August 1, 2013.

TEST SCORES

- Division I uses a sliding scale to match test scores and core grade-point averages. The sliding scale for those requirements is shown on page two of this sheet.
- Division II requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a sum of the following four sections: English, mathematics, reading and science.
- When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.

GRADE POINT AVERAGE

- Be sure to look at your high school’s List of NCAA Courses on the NCAA Eligibility Center’s website (wwweligibilitycenter.org). Use the list as a guide.
- Only courses that appear on your school’s List of NCAA Courses will be used in the calculation of the core grade-point average. Use the list as a guide.
- Division I core grade-point-average requirements are listed on a sliding scale on the NCAA Eligibility Center’s website.
- The Division II core grade-point-average requirement is a minimum of 2.000.
- Remember, the NCAA grade-point average is calculated using NCAA core courses only.

COLLEGE ENTRANCE EXAMS

PLAN (Pre-ACT) test contains four curriculum-based assessments: English, mathematics, reading, and science. The assessment is based on the major areas of high school and postsecondary instructional programs and measures the skills and knowledge needed for college success. Scores are reported on a scale of 1-32, and can be used to forecast a student’s score on the ACT. PLAN also includes a career exploration component that stimulates students’ thinking about future plans and relates personal characteristics to career options. http://www.actstudent.org

American College Test (ACT) is an achievement test emphasizing analytical thinking and problem-solving skills. Scores are given in English, math, reading, and science reasoning; career guidance information is provided. The test is administered six times a year. This is a college admission test taken in the spring of the junior year or the fall of the senior year. http://www.actstudent.org

Preliminary Scholastic Aptitude Test (PSAT/NMSQT) The Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) is a program cosponsored by the College Board and National Merit Scholarship Corporation (NMSC). When taken in the junior year, the PSAT is the qualifying test for the National Merit Scholarship competition. It is a standardized test that provides firsthand practice for the SAT. The test is administered once a year in October. http://www.collegeboard.org

Scholastic Aptitude Test I (SAT I) The SAT is the benchmark standardized assessment of the critical reading, mathematical reasoning, and writing skills students have developed over time and that they need to be successful in college. All colleges accept the SAT as an objective measurement of students’ college readiness. The college admission test is given 7 times a year. http://sat.collegeboard.org

Scholastic Aptitude Test II (SAT II) is offered in 15 areas from English, social science, math, science, and foreign language. Many competitive colleges require tests in three areas (writing, mathematics, and the third of the student’s choice). Check college catalogs to determine which subject tests are required. Up to three tests may be taken on one date, but the SAT II cannot be taken on the same day that a student takes the SAT I. The test is best taken upon completion of the related course. http://sat.collegeboard.org
This year students will participate in the California Assessment of Student Performance and Progress (CAASPP) system by taking a series of computer-based tests developed by the Smarter Balanced Assessment Consortium that will provide an academic checkup for students by measuring real-world skills like critical thinking and problem solving. These assessments offer significant improvements over tests of the past, including new types of questions and performance tasks that require students to apply a variety of skills to complete complex tasks that will prepare them for college and the workplace.

SMARTER BALANCED TESTS

Students in grades 5, 8, and 10 will continue to participate in the paper-pencil California Standards Test, California Modified Assessment, or California Alternate Performance Assessment in Science. Student Individual Reports explaining the results of these tests will be available to you once the tests are scored.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Language Arts/Literacy</td>
<td>Grades 3-8 and 11</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Grades 3-8 and 11</td>
</tr>
</tbody>
</table>

EARLY ASSESSMENT PROGRAM (EAP)

Grade 11 students will have the opportunity to receive feedback regarding their preparedness for college by participating in the Early Assessment Program (EAP). Tests are developed by CSU faculty, who make sure the CSU placement standards are covered. After you take the test, you will receive a score report that tells you whether you need additional preparation for college-level work or meet CSU’s requirements for freshman math and English courses. Visit CSU’s Success website for tools available on pinpointing individual strengths and weaknesses. If you need more time to prepare, you have your entire senior year to do so.

http://www.csusuccess.org/shome2

CELDT PROGRAM

The progress of English Learners is assessed by Fresno Unified School District as required by state and federal law, and consistent with the district’s Master Plan for English Learners. Progress in acquiring English is measured annually through the California English Language Development Test (CELDT), which includes assessing students’ ability to listen, speak, read, and write in English.

CALIFORNIA HIGH SCHOOL PROFICIENCY EXAMINATION

The California High School Proficiency Examination (CHSPE) is a program established by California law. E.C. 48412. If eligible to take the test, you can earn the legal equivalent of a high school diploma by passing the CHSPE. The CHSPE consists of two (2) sections: an English-language Arts section and a Mathematics section. If you pass both sections, the California State Board of Education will award you a Certificate of Proficiency, which by state law is equivalent to a high school diploma.

You may take CHSPE if, on testing day, you:

- Are at least 16 years old; or
- Have enrolled in the 10th grade for one (1) academic year or longer; or
- Will complete one (1) academic year of enrollment in the 10th grade at the end of the semester during which the next regular administration will be conducted.

http://www.chspe.net

PROGRAMS

ADVANCED PLACEMENT (AP)

The Advanced Placement (AP) program is a cooperative endeavor that helps able high school students complete college-level courses and permits colleges to evaluate, acknowledge, and encourage that accomplishment through the granting of appropriate credit and/or placement. The AP program is national in scope; its policies are determined by representatives of the College Board member institutions and agencies throughout the country (public and private secondary schools, colleges, and universities) and are implemented by the College Board.

Advanced Placement exams are offered each spring. Students successful in AP courses generally have adequate preparation for these three-hour long comprehensive examinations. Each exam is administered once a year during the second and third weeks in May. Most colleges award credits and/or advanced placement for demonstrated subject area proficiency. College entrance with sophomore standing is available through the AP program at cooperating colleges. Additional information about the AP program is available in the site supplement and in the counselors’ offices.

Students choosing to take an AP examination are subject to a test fee which is charged by the College Board. The fee is currently $92. Fee waivers are available to students who meet certain criteria. See the College Board website (http://CollegeBoard.org) for additional information. To find colleges and universities with AP credit policy information, please visit: http://collegesearch.collegeboard.com/apcreditpolicy/index.jsp

ALTERNATIVE EDUCATION

Fresno Unified School District offers three alternative high school options. They are:

- Cambridge High School
- J. E. Young Academic Center
- DeWolf High School

For information on attendance criteria, please see your counselor.
FRESNO UNIFIED SCHOOL DISTRICT

1990, more than 85,500 AVID students have graduated from high educational reform programs is its astounding success rate. Since they will rise to the challenge. What differentiates AVID from other expectations of students and, with the AVID support system in place, students in the academic middle. The formula is simple — raise Although AVID serves all students, it focuses on the least served and change.

professional development, and acts as a catalyst for systemic reform of effective instruction, provides meaningful and motivational system accelerates student learning, uses research-based methods to increase school-wide learning and performance. The AVID through postsecondary college readiness system that is designed AVID, Advancement Via Individual Determination, is an elementary to earn college credit in high school; see instructor for information.

http://www.fas.edu

DUAL ENROLLMENT

Dual enrollment will provide students with the opportunity to gain college units while in high school at no cost to the student. This can lead students on a path towards certifications as well as preparing for college. At the end of each course, eligible students receive college credit as indicated on the student’s college transcript. This is an option to earn college credit in high school; contact your student’s instructor for more information.

UNITRACK

The Unitrack program is in partnership with California State University, Fresno. Students in 11th and/or 12th grade may enroll in designated high school college prep courses and by paying a nominal fee, receive up to 8 CSU credits per semester through Fresno State after successfully completing the course. There is no test other than course assessments required of students. This is an option to earn college credit in high school; see instructor for information.

AVID

AVID, Advancement Via Individual Determination, is an elementary through postsecondary college readiness system that is designed to increase school-wide learning and performance. The AVID system accelerates student learning, uses research-based methods of effective instruction, provides meaningful and motivational professional development, and acts as a catalyst for systemic reform and change.

Although AVID serves all students, it focuses on the least served students in the academic middle. The formula is simple — raise expectations of students and, with the AVID support system in place, they will rise to the challenge. What differentiates AVID from other educational reform programs is its astounding success rate. Since 1990, more than 85,500 AVID students have graduated from high school and planned to attend college. For more information, please contact your counselor.

CAREER READINESS / ROP

The Career Readiness Department plays an integral part in achieving the District’s mission of preparing career-ready graduates. “A career ready graduate is a student who has all possible options available to them upon graduation from Fresno Unified School District. This student has a strong academic foundation, has completed required courses, and has acquired the workplace skills and competencies necessary for success after high school.” Linked Learning pathways offer challenging academic courses, demanding technical courses, and a work-based learning component with sequential grade 9-12 pathway courses. Through rigorous hands-on learning opportunities, students will better understand the relevance of what they are learning and learn early about potential career options. Career Technical Education (CTE) courses represent fifteen recognized California Industry Sectors and over 25 pathway programs. CTE courses empower students to make meaningful career choices by providing opportunities to explore their interests, develop career skills, and reinforce academics. These courses also offer a wide range of additional educational benefits, including college credit for qualifying courses, industry certification, and internships when appropriate.

Regional Occupational Program (ROP) courses are offered primarily for juniors and seniors as coursework for numerous pathway programs and are open to students from any campus. Transportation is not provided between high school campuses. These CTE courses are two periods in length and include basic employability skills, such as interviewing techniques, resume writing, and professionalism. Many ROP courses offer community classroom experiences where students receive hands-on learning in related industry-specific businesses throughout the community. ROP also offers a wide range of additional educational benefits, including college credit for qualifying courses and industry certification.

ENGLISH LEARNERS

The mission of the Department of English Learner Services is to provide schools with quality instructional support, guidance, and direction to improve instruction of English Learners and ensure their academic success. This entails the implementation of proven, research-based instructional strategies that are utilized in conjunction with district adopted resources to meet the academic needs of English Learners based on individually assessed needs. In addition to guiding academic instruction, English Learner Services supports the productive engagement and involvement of parents of English Learners as critical partners in the success of our students. This support includes the establishment of functioning English Learner Advisory Committees and the creation of a welcoming environment for English Learners and their families.
EXPANDED LEARNING

AFTER SCHOOL PROGRAM

The Fresno Unified’s ASSETS (After School Safety and Enrichment for Teens) program is offered at Edison, Fresno, McLane, and Sunnyside High Schools through the 21st Century Community Learning Grant funds programs.

ACTIVITIES

Program activities are planned to reflect school site and district goals. Program opportunities include:

- Credit Recovery Classes
- Tutorials
- Homework Support
- City of Fresno’s BEST Program (College and Career Planning)
- Enrichment Activities

ONLINE LEARNING

High school students have the opportunity to take courses online to achieve credit recovery. Fresno Unified currently uses Apex Learning as its course content provider. Students who are interested in taking online courses should speak to their high school guidance counselor.

Online courses are offered during the regular school day and as part of summer school offerings. Having these online courses available allows students to get back on-track for graduation and for a-g purposes.

SUMMER SCHOOL

Students enrolled in grades 9–12 may take only one (1) original credit summer school class from each of the core curriculum subject areas (math, English/Language arts, history/social science, and science) during his/her four-year high school career.

Please contact your student’s counselor for additional information on original credit summer school policy.

HONORS & GATE

Fresno Unified School Districts offers rigorous courses for accelerated students. Similar to Advanced Placement, grades in Honors courses receive augmentation.

SEAL OF BILITERACY

The Fresno Unified School District awards the Seal of Biliteracy in accordance with criteria developed by the California Department of Education. The award recognizes students who can speak, read and write in English and in one or more other languages to a degree that is equivalent to four years of world language instruction. Students attaining the State Seal of Biliteracy receive a medallion in their senior year and a certificate that verifies bilingualism to potential employers. The Seal of Biliteracy is noted on the high school diploma and in the commencement program as well.

INTERNATIONAL BACCALAUREATE

International Baccalaureate, offered exclusively at Fresno High, is internationally recognized as the most cohesive, rigorous and comprehensive college and career preparatory programs available. All students at Fresno High School (FHS) are part of the IB Programme and are able to gain the benefits of a student-centered, inquiry-based approach to teaching and learning.

All freshmen entering FHS are enrolled as students in the Middle Years Programme (MYP), which continues through their sophomore year. The MYP courses lay the foundation necessary for success in the Diploma Programme (DP).

The Diploma level courses are two year advanced courses which provide the opportunity for students to earn college credit through the end-of-course exams. Additionally, students with the prerequisite course work can opt to attempt the Full Diploma, which when successfully completed, awards a second international diploma in addition to their Fresno High Diploma. Students who choose to pursue the Full Diploma option complete six IB DP courses, a community service project, write an extended essay and participate in a Theory of Knowledge course. Through these offerings, FHS ensures that students graduate ready for the challenges of college and career.

MIGRANT EDUCATION

Migrant Education is a national program that provides supplemental educational and support services to eligible migrant children each year. These services help children of migrant workers overcome the disadvantages they face, one of which is disruption to their education due to mobility.

To qualify for the Migrant Education Program, a migrant child must have moved within the past three years across state or school district boundaries with a migrant parent, guardian, or self, to enable the child, the child’s guardian, or a member of the child’s immediate family to obtain temporary or seasonal employment in an agricultural, fishing, or food processing activity. The child may be in any grade between preschool and the 12th grade and must not be older than twenty-two and not a high school graduate.

SPECIAL EDUCATION

Each comprehensive high school site provides a continuum of services to meet the needs of students with identified disabilities under the Individuals with Disabilities Education Act (2004). The Individualized Education Program (IEP) developed by the student’s IEP Team will determine the necessary supports and services for the identified students with exceptional needs.

In addition to participating in regular coursework, identified students may also take Board-adopted “School to Employment Pathways” (STEPs) coursework. The STEPs coursework is specified by the IEP Team in the student’s Individualized Education Program.

The “School to Employment Pathways” coursework consists of the
successful completion of five competency-based classes taught in sequence over four years:

- Personal Management A
- Career Exploration
- Career Preparation
- Personal Management B
- One vocational elective (must be pre-approved)

The STEPs coursework documents the student’s participation in secondary education, the development of vocational, citizenship, and personal management skills, and the ability to apply learning to employment settings.

Refer to your student’s Special Education Case Manager or Counselor for more specific information regarding your child’s coursework.

PARENT RESOURCES

Parents play an influential role in helping their son or daughter plan, prepare, and develop an academic plan. Parents should:

- Review this guide and materials they receive at school and discuss them with their student.
- Learn graduation plan requirements and be sure that the student meets them.
- Make sure students select courses that help them meet their educational and career goals.
- Encourage students to take Advanced Placement courses and dual credit courses to earn college credit while still in high school.
- Help students to learn about colleges and careers that interest them.

Students who are involved in extracurricular activities are often more successful in school. Fresno Unified offers clubs, teams and other opportunities for learning academic and social skills, making friends, and developing leadership skills. Encourage your student to be involved in at least one extracurricular activity.

ATLAS

ATLAS is Fresno Unified’s Student Information System (SIS). A key component for students is the Student Portal where students have the ability to check their grades on an on-going basis. The Parent Portal does much the same for parents and it allows them to keep track of their student’s progress throughout the school year. As of Spring 2014, parents can sign up to receive EduText, a grade and attendance texting technology. By simply ensuring parental contact information is accurate in ATLAS, parents will be able to receive a regular grade text message.

For log-in information, please see the office at your student’s school.

CHALLENGING COURSES BY EXAMINATION

Students may use the challenge process for accelerating progress toward graduation and/or to achieve more flexibility in the selection of electives. The emphasis of this challenge opportunity is to permit students to enroll in other courses within the district curriculum better suited to the students’ educational goals. Please contact your student’s counselor for specific information on challenging courses.

PARENT UNIVERSITY

Parent University is a strategy initiated by Fresno Unified to empower, engage, and connect families to their school community. At the core of this family and community engagement strategy is a focus on parent learning for the purpose of supporting student achievement. Parent University aims to strengthen and sustain meaningful family engagement at all levels of the school system. Phone: (559) 457-6006
Email: Parent.University@fresnounified.org

PROPERTY FABRICATED BY STUDENTS

The governing board of a school district may authorize any officer or employee of the district to sell to any pupil personal property of the district which has been fabricated by such pupil, at the cost to the district of the materials furnished by the district and used therein. (Education Code section 17551.)

By approving this Fresno Unified School District Course Guide, the governing board of Fresno Unified School District hereby authorizes all schools, including their employees and officers, within Fresno Unified School District to charge fees in accordance with California Education Code section 17551.

REPORT CARDS

Students receive report cards at the end of each quarter. Only semester grades are used for GPA and college admission purposes.

STUDENT IN DANGER OF FAILING A COURSE

E.C. 49067 (a); A.R. 5121

The Governing Board of each school district shall prescribe regulations requiring the evaluation of each student’s achievement for each marking period and requiring a conference with, or a written report to, the parent/guardian of each student whenever it becomes evident to the teacher that the student is in danger of failing a course. The refusal of the parent/guardian to attend the conference, or to respond to the written report, shall not preclude failing the student at the end of the grading period.
TITLE IX OF THE EDUCATIONAL AMENDMENT
“No person...shall, on the basis of sex, be excluded from participation in, denied the benefits of, or be subjected to discrimination under any educational program or activity receiving federal financial assistance.”

“No student or applicant for enrollment will be subject to discrimination on the basis of that student's pregnancy, childbirth, false pregnancy, termination of pregnancy and/or recovery there from.”

THE PARENT AND CHILD EDUCATION (PACE) PROGRAM
High-quality early care and education for infants, toddlers and preschool age children are provided to enable teen parents to attend classes and graduate from high school. Services include parenting class, counseling, and referral services to other agencies for additional resources. The Teen Parent Program is located at Roosevelt High School; however, resources are provided at each high school. For further information, contact: The Early Learning Office at 457-3684.

TRANSFER PROCESS
The transfer process and procedure shall be centralized to allow for as many transfers to be granted ensuring that the District's facilities are equitably utilized and families' needs are met. Transfers Office shall be charged with administering the transfer process, including the administrative placement of students as necessary. For additional information, please contact the Transfers Office at 457-3000.

WITHDRAWAL FAILURE
Students may drop courses at any time up to the end of the fifth or sixth week of the semester. After that point, a student receives a Withdrawal Failure (WF) and it is factored into the GPA.
Course Descriptions

The following information is a collection of the courses offered throughout Fresno Unified School District. For specific information on courses, please see your high school counselor.

COURSE TITLE
DESCRIPTION CODES

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP</td>
<td>Advanced Placement</td>
</tr>
<tr>
<td>CDE</td>
<td>California Department of Education</td>
</tr>
<tr>
<td>IB</td>
<td>International Baccalaureate</td>
</tr>
<tr>
<td>ROP</td>
<td>Regional Occupational Program (2-period classes)</td>
</tr>
</tbody>
</table>

ARTICULATED COURSES
Courses with an asterisk have the option to earn college credit in high school. Please see the instructor for additional information.

SCHOOL NAME ABBREVIATIONS

<table>
<thead>
<tr>
<th>ABBREVIATION</th>
<th>SCHOOL NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS</td>
<td>Bullard High School</td>
</tr>
<tr>
<td>CHS</td>
<td>Cambridge High School</td>
</tr>
<tr>
<td>DSHS</td>
<td>Design Science High School</td>
</tr>
<tr>
<td>DHS</td>
<td>De Wolf High School</td>
</tr>
<tr>
<td>DPHS</td>
<td>Duncan Polytechnical High School</td>
</tr>
<tr>
<td>EHS</td>
<td>Edison High School</td>
</tr>
<tr>
<td>FHS</td>
<td>Fresno High School</td>
</tr>
<tr>
<td>HHS</td>
<td>Hoover High School</td>
</tr>
<tr>
<td>JEY</td>
<td>J. E. Young Academic Center</td>
</tr>
<tr>
<td>MHS</td>
<td>McLane High School</td>
</tr>
<tr>
<td>PSE</td>
<td>Patiño Entrepreneurship High School</td>
</tr>
<tr>
<td>RHS</td>
<td>Roosevelt High School</td>
</tr>
<tr>
<td>SHS</td>
<td>Sunnyside High School</td>
</tr>
</tbody>
</table>

Disclaimer: Not all course offerings are available at all sites and during all semesters. Check with your school for specific offerings for the upcoming semester. Course offerings are subject to change.

CAREER TECHNICAL EDUCATION

AGRICULTURE & NATURAL RESOURCES

AGRICULTURE AND SOIL CHEMISTRY

SHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 10
PREREQUISITE: CDE Agricultural Biology

This course provides students an opportunity to explore the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students will also learn science laboratory safety, use the scientific method, participate in investigations and experiments, and use various tools and instrumentation.

AGRICULTURE MECHANICS

SHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11
PREREQUISITE: None

Agriculture Mechanics is an academically engaging course that integrates mathematics, science, writing and mechanics. Students will focus on understanding theory and application of the following topics, using the ag mechanics shop, measurement, project planning, electricity and electronics, plumbing systems and water use, concrete and masonry, arc welding, power mechanics, and industry related careers.

AGRISCIENCE SYSTEMS MANAGEMENT

UCCI

SHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11-12
PREREQUISITE: Algebra 1, Life or Physical Science

Using skills and principles learned in the course, students design systems and experiments to solve agricultural management issues currently facing the industry. Additionally, students will connect the products created in this class with industry activities to link real world encounters and implement skills demanded by both colleges and careers.
BIOLOGICAL LINKS TO ENERGY AND THE ENVIRONMENT

HHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 9
PREREQUISITE: None

This course is a hands-on, exploration of cellular biology and chemical reactions that occur in an organism's cells. Specific attention is paid to energy acquisition and use in organisms, ecosystems and the environment. Students compare energy sources for plants and animal cells with renewable and non-renewable energy use by humans. Specific aspects to CTE include an understanding of energy types, calculations, and how energy is derived from natural and man-made sources, as well as understanding the impact of environmental laws and regulation that affect the energy industry and its role in maintaining sustainability of our natural world. Throughout the course, students identify and describe careers, certifications and postsecondary education and training requirements to pursue a variety of environmental and energy-related fields.

CDE AGRICULTURAL BIOLOGY

SHE

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 9
PREREQUISITE: None

Ag Biology is the study of plants and animal life, their relationship to one another, and of man in his environment. Biology is addressed at the application level and students experience how agriculture affects all of our lives. This is an applied, hands-on learning class utilizing farm laboratory experiments, research projects, and presentations.

CDE AGRICULTURAL SCIENCE I

HHS, SHE

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 9
PREREQUISITE: None

Agricultural Science I provides the opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in plant science, soil science, horticulture, natural resources, agribusiness management, agricultural biotechnology, food science technology and environmental science will be presented.

LANDSCAPE AND ENVIRONMENTAL DESIGN

SHE

DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11-12
PREREQUISITE: None

Students will learn techniques in approaching solutions to landscape architectural design problems. Students will train their aesthetic outlook on design presentation by continual exercises that trains their perception of balance and color harmony while achieving a story through visual display from hand drawn to computer generated exhibits. This training will allow the student to develop skills on how to make decisions and be able to respond to the aesthetic value of landscape architectural design.

ROP SMALL ANIMAL MANAGEMENT

Open to all Fresno Unified juniors and seniors

DPHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11-12
PREREQUISITE: None

ROP Small Animal Management is designed to provide students the study of care and management of small animals, including anatomy, disease, and veterinary healthcare. Students will have an opportunity to investigate aspects of the veterinarian and animal healthcare field through project-based learning.

ARTS, MEDIA & ENTERTAINMENT

CINEMATOGRAPHY*

SHE

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 10–12
PREREQUISITE: None

Cinematography students learn videography, 3D graphics, animation and interactive multimedia, and advanced techniques in recording and editing. Students utilize equipment under a variety of technological conditions, produce and evaluate hard and digitalized copy, create a portfolio of work, and demonstrate an understanding of technology and career opportunities in the field of videography. Option to earn college credit in high school; see instructor for information.

CRITICAL APPROACHES TO FILM AND MEDIA

MHS

DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11–12
PREREQUISITE: None

Students in this course study film as both an art and a means of communication. They are taught to “read” a film, analyzing its narrative structure, genre conventions, subtext, technical and artistic factors and purpose. Extensive film viewing and analysis are essential course components. The emphasis is on the various techniques used by filmmakers to convey meaning. Students need to be able to think and write critically about film. In addition, students examine how films often reflect the times and conditions in which they are made, and conversely, how motion pictures sometimes help shape attitudes and values in society.
MULTIMEDIA
BHS, DPHS, FHS, HHS, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: None

Multimedia is an applied academic and theoretical base for graphic art design and multimedia creation. Students develop an understanding of design elements and principles, career possibilities, art history, 21st century artistic styles, and product graphic design. Students demonstrate their newly acquired understanding through research, written essays, written critiques, and the planning and creating of their own original computer graphics and multimedia works. Students then generate an original multimedia portfolio as their final project.

MULTIMEDIA GRAPHICS II
BHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 10–12
PREREQUISITE: None

Multimedia Graphics II is an applied base for graphic art design, multimedia creation, and its application to the Internet. Students develop an understanding of design elements and principles, career possibilities, and determine how these are applied to Internet technology as well as print media. Students demonstrate their newly-acquired understanding through research, essays, critiques, and creating their own original computer graphics and multimedia works. Students then generate an original multimedia portfolio as their final project.

ROP ART & DESIGN
Open to all Fresno Unified juniors and seniors

MHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 11–12
PREREQUISITE: None

This course is designed to develop artistic perceptual skills as students create projects directly related to the elements of art and the principles of design. Historical, socio-cultural, and contemporary influences will be fully analyzed as a means of communication. Students will incorporate aesthetic evaluation of recognized artistic mastery to better analyze and critique their own accomplishments. Students will create original works of art by utilizing diverse techniques and materials, including reprography, various painting disciplines, sculpture, as well as assorted drawing materials. Students will study the impact of art in both a historical and social context as well as determine psychological and influential implications. This course will offer a broad perspective of the many careers related to art and design.

ROP DIGITAL PHOTOGRAPHY*
Open to all Fresno Unified juniors and seniors

FHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 11–12
PREREQUISITE: None

Digital Photography strengthens and challenges students’ creativity and skills in the visual arts with a special emphasis on digital media. Students will analyze, research, and discuss their own artwork, artwork of their peers, and famous and newly emerging artists of contemporary culture. Instruction includes the examination of the formal, expressive, and aesthetic properties of photographic art and examines the history and development of photography and its relationship to the scientific and technological views of the 19th and 20th centuries. A portfolio of artwork will demonstrate knowledge and understanding of the elements and principles of art, style and design. Students will link photography to other art forms and disciplines and will understand its applications to careers within contemporary society. Option to earn college credit in high school; see instructor for information.

ROP DIGITAL VIDEO PRODUCTION
Open to all Fresno Unified juniors and seniors

BHS, FHS, MHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 11–12
PREREQUISITE: None

Students will take video production and broadcast to the next level. Using digital A/V tools they will produce multiple media and news projects expressing their creative process and demonstrating their knowledge and understanding of pre-production, production, and post-production in the areas of video and broadcast media. Integrated throughout the course are career preparation standards such as communication skills, interpersonal skills, and problem solving.

ROP MULTIMEDIA*
Open to all Fresno Unified juniors and seniors

FHS, MHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 11–12
PREREQUISITE: None

Multimedia Communications introduces students to a variety of occupations in visual communications and the technical, artistic, and design requirements of these positions. Students will be exposed to a variety of occupations in the communications industry. Instructional strategies will provide students with hands-on experiences in a variety of media applications and equipment utilization and a curriculum focus on project development and presentation. Option to earn college credit in high school; see instructor for information.
**VIDEOGRAPHY**

**RHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** Pending, in review  
**GRADES:** 10–12  
**PREREQUISITE:** None

Videography is an introductory class that emphasizes and develops critical thinking skills by exploring the influence of design principles, historically significant art forms from various genres, and the production process of films and television programming. Students will analyze a variety of film and television programming as they learn to critique artists’ work. Students will learn to use the technology available to produce and edit various forms of multimedia communications, including video cameras, lights, sound equipment, and industry-standard computer software. Additionally, communication and interpersonal skills, problem solving, and safety are emphasized throughout the curriculum.

**VIDEO PRODUCTION**

**BHS, DPHS, MHS, RHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** f  
**GRADES:** 10–12  
**PREREQUISITE:** None

Video Production examines the multiple uses of video technology in various entertainment and industry sectors. Students will receive task-oriented training in pre and post-production jobs, competencies, current and emerging technologies, and the collaborative nature of the creative process involved in video production. Students will examine the technological interface of lighting, sound, recording and computer modification involved in digital video as well as the historical and artistic significance of film and television as it applies to society.

**BUILDING & CONSTRUCTION TRADES**

**ROP CONSTRUCTION TECHNOLOGY/EXTERIOR***

Open to all Fresno Unified juniors and seniors

**DHS, DPHS, HHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** None  
**GRADES:** 10–12  
**PREREQUISITE:** None

This course provides instruction in the building trades. Students will be instructed in current practices in construction technology: rough and finish carpentry, cabinetmaking, plumbing, concrete masonry, brick laying, concrete reinforcement, roofing, insulation, air conditioning, sheet metal and welding. Students will also compile a portfolio of acquired skills and a certificate of employability. Option to earn college credit in high school; see instructor for information.

**ROP CONSTRUCTION TECHNOLOGY/INTERIOR***

Open to all Fresno Unified juniors and seniors

**DHS, DPHS, HHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** None  
**GRADES:** 10–12  
**PREREQUISITE:** None

This course prepares students for the competency skills and knowledge necessary to enter the field of residential and light commercial construction. This year course provides student application at all of the various areas of construction, technology, wood products manufacturing, and interior building construction. Included in the instruction will be specific applications of career performance standards. Option to earn college credit in high school; see instructor for information.

**BUSINESS & FINANCE**

**BUSINESS INNOVATION AND DESIGN**

**BHS, MHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** g  
**GRADES:** 9–10  
**PREREQUISITE:** None

Business Technology provides students with research-based reading strategies and integrated academic activities to build comprehension and reinforce key academic concepts, all within the context of business topics. Business development, social controversies, marketing and technology are infused throughout specific projects to provide a conceptual framework for understanding business structure and management. Topics also include entrepreneurship, economics, the Internet, accounting, and governance.

**BUSINESS TECHNOLOGY**

**BHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** g  
**GRADES:** 9–10  
**PREREQUISITE:** None

Business Technology provides students with research-based reading strategies and integrated academic activities to build comprehension and reinforce key academic concepts, all within the context of business topics. Business development, social controversies, marketing and technology are infused throughout specific projects to provide a conceptual framework for understanding business structure and management. Topics also include entrepreneurship, economics, the Internet, accounting, and governance.
## PERSONAL FINANCE

**JEY, MHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 10–12
- **PREREQUISITE:** None

This is a practical course that deals with basic real-life problems: budgeting, credit, insurance, and consumer law. Students will learn to analyze, apply, interpret, and communicate financial concepts that are used in a global society.

## ROP BANKING & FINANCIAL INSTITUTIONS

*Open to all Fresno Unified juniors and seniors*

**MHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** Pending, in review
- **GRADES:** 11–12
- **PREREQUISITE:** None

The curriculum focuses on financial institutions and their varied structures, services, and products. Topics include financial planning, asset and liability management, the role of the Federal Reserve System, and how the Banking and Financial Services Sector reflects a global economic society. Students will set goals and develop a financial plan for spending, saving, using credit, and investing and gain first-hand knowledge of operating a credit union and assisting members with its products and services.

## ROP SMALL BUSINESS MANAGEMENT*

*Open to all Fresno Unified juniors and seniors*

**BHS, CHS, MHS, RHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** Pending, in review
- **GRADES:** 11–12
- **PREREQUISITE:** Business Technology recommended

This course is designed for anyone who wants to own or manage a business. Each student creates his-her own business. Students develop a business plan and learn how to hire and manage a staff. They also learn how to finance and insure a business and integrate customer service and marketing strategies. Students are placed in small businesses, stores, and offices for on-the-job training. Option to earn college credit in high school; see instructor for information.

## ROP VIRTUAL ENTERPRISE

*Open to all Fresno Unified juniors and seniors*

**FHS, MHS, RHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** g
- **GRADES:** 11–12
- **PREREQUISITE:** None

Students set up and simulate a business, determine the nature of their business, its products and services, its management and structure, and learn the daily operations of a business under the guidance and support of a real business partner. Course will use current business software packages and the Internet for business transactions.

## EDUCATION, CHILD DEVELOPMENT

## CHILD DEVELOPMENT*

**SHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** g
- **GRADES:** 9–10
- **PREREQUISITE:** None

Child Development is a comprehensive study of developmental stages of children from conception through early adolescence and includes units in pregnancy and prenatal development, infant care, growth and development patterns during early childhood, and techniques of discipline and guidance. Students will observe and work with preschool children regularly to enable them to have actual experience working with young children. Option to earn college credit in high school; see instructor for information.

## CROSS-AGE PHYSICAL EDUCATION

**BHS, HHS, MHS, RHS, SHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 10–12
- **PREREQUISITE:** None

This course offers the high school student an opportunity to study motor and fitness development by teaching physical education to elementary students. The high school student will design lesson plans and teach to a designated elementary class. High school students will be required to wear gym clothes as specified by the teaching staff and the district and to participate in all physical activities with elementary students.

## EDUCATIONAL PSYCHOLOGY

**MHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** Pending, in review
- **GRADES:** 11
- **PREREQUISITE:** None

This course is designed to promote understanding of the principles of psychology that affect human behavior with emphasis on the effects of these principles on the learner, the learning process, the learning situation, and teaching in educational environments. Educational Psychology emphasizes the application of developmental and learning theory to the classroom. In addition, students engage in assignments that enhance their abilities both to understand themselves as learners and to make effective learning decisions. Course content is drawn from current research and educational practice and involves substantial reading, writing, research, and applications of knowledge.
INTRODUCTION TO EDUCATION

RHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 9–10
PREREQUISITE: None

Introduction to Education is an introduction to the philosophical, historical, legal, and societal principles that form the foundations of American education. Students acquire knowledge of both classical and contemporary issues in teaching and learning. Students engage in substantial reading, analysis, writing, and oral arguments and presentations regarding essential topics in education as well as beyond-the-classroom observations and practicum. In addition, each student completes at least one major research paper and a professional portfolio that demonstrates mastery and growth.

INTRODUCTION TO TEACHING

MHS, RHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 10–12
PREREQUISITE: None

This course provides students who are interested in the field of education the opportunity to experience first-hand, the role of the teacher and the art of teaching. This course provides active class participation that is enhanced by fieldwork in elementary schools. Students will reinforce their career choice, impart valuable teaching skills, and cultivate understanding of the needs and uniqueness of children.

ROP CAREERS IN EDUCATION*

Open to all Fresno Unified juniors and seniors

DPHS, SHS

DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11–12
PREREQUISITE: Child Development recommended

Careers in Education is a year-long, academically-focused course designed to introduce interested students to the theories behind teaching and learning. Students utilize several textbooks and resources to provide interdisciplinary background needed in a theory course. Students study the history of education in the United States, sociological factors influencing educational systems, education policy and politics, the psychology behind learning and teaching, curriculum design and educational standards, and the role of assessment and evaluation in education. Option to earn college credit in high school; see instructor for information.

ROP CHILD DEVELOPMENT & EDUCATION*

Open to all Fresno Unified juniors and seniors

RHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 11–12
PREREQUISITE: Child Development or Introduction to Teaching recommended

Child Development is a comprehensive study of developmental stages of children from conception through early adolescence and includes the major theories of development and their application. Focus is on the emotional, psychological, cognitive and physical development and the influence of heredity and environmental factors. Included in the curriculum is an understanding of multiple intelligence, learning modalities, and current brain research. Additionally, the organization and procedures and techniques for instructing, guiding and caring for children in a childcare center, preschool or primary classroom are researched and evaluated. Option to earn college credit in high school; see instructor for information.

ENERGY, ENVIRONMENT, & UTILITIES

ADVANCED ELECTRONICS

EHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 12
PREREQUISITE: Electronics Engineering

Advanced Electronics is a capstone class for the Green Energy Academy. Students will learn the underlying scientific principles that drive electrical systems. This course has a specific in depth focus on applications of the scientific. Students planning for collegiate majors in STEM fields will finish well prepared for their college coursework.

GREEN UP & GO UCCI

EHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 10–12
PREREQUISITE: None

This course is designed for students in the Green Energy Pathway and provides students with the history and development of power production and transmission, basic electrical circuit theory, and energy industry applications. Students have an opportunity to apply concepts to various forms of energy production and build various energy production models.
**ENGINEERING & ARCHITECTURE**

**COMPUTING WITH ROBOTICS CSTEM**

**SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** Pending, in review  
**GRADES:** 11–12  
**PREREQUISITE:** Algebra I

This course introduces students to the working principles and foundational knowledge of robotics. Students learn to control a single robot and multiple robots by graphical user interface, pose teaching, and computer programs. Students write robotics programs to perform various tasks based on the sensory information of robots. Robots are used as platforms to engage students in both personalized and collaborative learning computing, science, technology, engineering, and math concepts. This course emphasizes hands-on robotics activities with a concentration on mathematical modeling and computer programming for solving problems in math and science.

**ELECTRONICS ENGINEERING**

**DPHS, EHS, FHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** g  
**GRADES:** 9–11  
**PREREQUISITE:** None

Through hands-on, interactive projects, students in Electronics Engineering explore a vast assortment of electronic communication systems to include: computers and computer networks, video security surveillance, burglar alarm, fire alarm, professional sound systems, and public address systems. Students will also receive training in the foundation elements of electronics, fiber optics, cabling and the physical setup of electronic systems. Additionally, students will explore entrepreneurship, contracting, career development, employability skills and work to complete a Federal certification in OSHA safety.

**ENGINEERING RESEARCH AND DEVELOPMENT PLTW**

**EHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** Pending, in review  
**GRADES:** 12  
**PREREQUISITE:** Previous engineering classes

Engineering Research and Development (ERD) is the capstone course in the engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process.

**INTRODUCTION TO ENGINEERING DESIGN PLTW**

**DPHS, EHS, FHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** f  
**GRADES:** 9–12  
**PREREQUISITE:** None

Designed for 9th or 10th grade students. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer’s notebook, and communicate solutions to peers and members of the professional community.

**PRINCIPLES OF ENGINEERING PLTW**

**DPHS, EHS, FHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** g  
**GRADES:** 10–11  
**PREREQUISITE:** None

Designed for 10th or 11th grade students. This survey course exposes students to major concepts they’ll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. Option to earn college credit in high school; see instructor for information.

**ROP AVIATION ENGINEERING**

Open to all Fresno Unified juniors and seniors

**EHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** Pending, in review  
**GRADES:** 12  
**PREREQUISITE:** Electronics course

Aviation and Engineering introduces students to aviation careers and elements of design, operation, and regulations. Students will build a kit aircraft under the guidance of an A&P mechanic. Students will apply the principles of flight, aerodynamic design, and the Scientific Method continuously throughout the course. Students will also acquire the skills and knowledge that will better prepare them for careers in aviation, including pilots, engineers, and designers.
**FASHION & INTERIOR DESIGN**

**ART FASHION & DESIGN**

**EHS**

**DURATION:** Year Course
**a–g DESIGNATION:** f
**GRADES:** 10–12
**PREREQUISITE:** Exploring Art and Fashion

Students will analyze, research, and discuss their own artwork, artwork of their peers, and famous and newly emerging artists of contemporary culture. Instruction includes the examination of the formal, expressive, and aesthetic properties of art and examines the history and development of fashion design and its relationship to the scientific and technological views of the 19th and 20th centuries. A portfolio of artwork will demonstrate knowledge and understanding of the elements and principles of style and design.

**EXPLORING ART & FASHION***

**EHS, RHS**

**DURATION:** Year Course
**a–g DESIGNATION:** f
**GRADES:** 9–10
**PREREQUISITE:** None

This course introduces students to the concept of fashion design and textile design as art forms unique to the fashion industry. Course content includes the social, cultural, familial and personal aspects of apparel choices; fashion “language,” color theory, elements and principles of art and design, introduction to fashion history, overview of fashion designers and their work; an introduction to textiles, apparel design evaluation and fashion careers exploration. Students will apply their acquired knowledge through research, written essays, written evaluations, and the creating of original fashion and textile designs.

**ROP FASHION DESIGN**

*Open to all Fresno Unified juniors and seniors*

**RHS**

**DURATION:** Year Course
**a–g DESIGNATION:** f
**GRADES:** 11–12
**PREREQUISITE:** None

A program that prepares students with the skills, attitudes, and knowledge needed for employment in fashion and textile design occupations. Instruction includes such topics as industry regulations, identification and analysis of textiles and textile products, elements and principles of design, garment construction, merchandising and fashion forecasting. Students develop skills to illustrate designs, create color charts with interesting pattern and texture variations, design apparel (including draping, pattern making, and grading), and develop a merchandise line. Integrated in the instruction will be specific applications of the career performance standards.

**HEALTH SCIENCE & MEDICAL TECHNOLOGY**

**APPLIED KINESIOLOGY**

**DPHS, MHS, RHS**

**DURATION:** Year Course
**a–g DESIGNATION:** d
**GRADES:** 10
**PREREQUISITE:** None

Applied Kinesiology students will study the principles, concepts and interactions of human anatomy and physiology specifically related to physical activity. An emphasis on metabolism and respiratory, cardiovascular, neuromuscular, and the skeletal systems will allow students to better understand exercise and its application to health promotion, disease prevention and healthy aging. Students will engage in project-based learning and explore how and why Kinesiology impacts training and coaching techniques.

**APPLIED MEDICAL ENGLISH UCCI**

**DPHS, RHS**

**DURATION:** Year Course
**a–g DESIGNATION:** b
**GRADES:** 11–12
**PREREQUISITE:** None

This course provides students the chance to design and implement a complex learning experience that represents their interests, the knowledge and skills they have gained in school, and their current visions for future education and work. While each student’s work is unique, research will include involvement of an adult within the community, research that leads to increased knowledge and makes a contribution to society, and conducting an experiment, seeking a solution or inventing something original.

**APPLIED MEDICAL SCIENCE**

**DPHS, MHS, RHS, SHS**

**DURATION:** Year Course
**a–g DESIGNATION:** g
**GRADES:** 9
**PREREQUISITE:** None

Applied Medical Science is a comprehensive study of Healthcare Occupations and Supplemental Skills. This course explores the healthcare occupations that include an overview of prevention, treatment and management of illness and the preservation of mental and physical well-being through the services offered by the medical and allied health professions. Additionally, this course provides students with the knowledge, skill and application to provide immediate care to individuals experiencing an acute medical emergency. Students will learn, practice and be certified in basic assessment, breathing and heart rescue and first aid procedures until transport or additional health professionals arrive.
### THE ART OF HEALTH SCIENCE

**DPHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>α–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>10–11</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

The Art of Health Science provides students with an overview of visual arts portrayed in history and present day media. As part of this exposure, students identifies and defines “art.” Integrated into this art exposure are connections to health and cultural approaches to health concerns expressed through art. Students explore techniques in two and three-dimensional media, while gaining appreciation for technical aspects of art and design that are incorporated to make stronger pieces.

### BIOLOGY AND COMMUNITY HEALTH UCCI

**DPHS, SHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>α–g DESIGNATION:</td>
<td>Pending, in review</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

This course is designed to provide students with an understanding of biological concepts through the study of the effect of disease on public and community health. Students engage in experiments, conduct research, complete simulations and apply knowledge of cellular physiology to understand the spread of disease, which is the foundation of public and community health. Students use experiments and their knowledge of genetics to explore the reasons for and effects of prevalence of hereditary disorders within a community. The course culminates with students putting their knowledge to work, educating their community about relevant health problems and what can be done to prevent them.

### BIOMEDICAL INNOVATION PLTW

**EHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>α–g DESIGNATION:</td>
<td>g</td>
</tr>
<tr>
<td>GRADES:</td>
<td>12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Previous biomedical course</td>
</tr>
</tbody>
</table>

This course is the capstone in the Biomedical Sciences Pathway. In the final course students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

### PRINCIPLES OF BIOMEDICAL SCIENCE PLTW

**BHS, EHS, RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>α–g DESIGNATION:</td>
<td>d</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–10</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, medicine, and research processes. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

### MEDICAL INTERVENTIONS PLTW

**BHS, EHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>α–g DESIGNATION:</td>
<td>d</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

### ROP ALLIED HEALTH CAREERS*

Open to all Fresno Unified juniors and seniors

**RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>α–g DESIGNATION:</td>
<td>b</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11-12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

ROP Allied Health Careers elaborates and deepens a student’s understanding of the medical industry and its intertwined relationship with one’s community. Codified areas of interest will facilitate placement of students in an advanced Student-Volunteer program at a local hospital or medical facility which will further background knowledge obtained by personal endeavors. Content will include the ELA Common Core Standards for English. Integrated units will include: health ethics, cultures of society, family, individual, health care, epidemiology, and careers while also focusing on communication as it relates to our global world. Option to earn college credit in high school; see instructor for information.
ROP ATHLETIC TRAINING
Open to all Fresno Unified juniors and seniors

EHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

Students investigate the human body systems and various health ROP Athletic Training offers instruction and practice in the skills and techniques necessary for the prevention and care of athletic injuries. Included will be terminology, anatomy, first aid/CPR, evaluation, treatment and rehabilitation. Students apply skills in work based learning opportunities at athletic events and other athletic training facilities.

ROP HEALTH & WELLNESS
Open to all Fresno Unified juniors and seniors

MHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

This course will explore the many facets of health and well-being. Content relating to the individual, the community, and the careers and institutions directly involved in health and wellness issues. Students will explore all domains of health including psychosocial, physical, and environmental elements and their impact on a person’s wellness. Students will examine how culture, socioeconomic status, behaviors, attitudes, and heredity play a role in a person’s well-being.

ROP MEDICAL CAREERS*
Open to all Fresno Unified juniors and seniors

DPHS, MHS, RHS, SHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

Students will receive broad-based instruction focusing on the healthcare industry. Students will be placed in a hospital or medical facility on clinical rotations to experience the various departments and healthcare occupations. At Sunnyside only, Medical Careers is a summer course for Doctors Academy students. Option to earn college credit in high school; see instructor for information.

ROP NURSING SERVICES*
Open to all Fresno Unified seniors

DPHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 12
PREREQUISITE: ROP Medical Careers recommended; Biology

This course provides the training required by the California Department of Public Health / Health Services for nursing assistant, both theory and clinical. Upon successful completion (“C” or better grade) the student is eligible to take the state exam to become a Certified Nursing Assistant. In addition, the student may gain additional competencies in other medically related areas such as health care of the developmentally disabled child, Alzheimer’s / dementia care, acute care and disease process. The student may receive Fresno Unified alternative means science credit. Option to earn college credit in high school; see instructor for information.

ROP THERAPY AND REHABILITATION CAREERS
Open to all Fresno Unified juniors and seniors

DPHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11–12
PREREQUISITE: None

This course is an introduction to Therapy Careers including Occupational Therapy, Physical Therapy, Rehabilitation Therapy, and other prominent therapy careers. The course includes medical terminology as well as a foundation for students working with patients who experience different medical conditions or disabilities. Students receive foundational exposure to safety and regulations in the medical environment, medical terminology, medical rehabilitation therapy careers, legal and ethical issues in rehab therapy, patient care, body mechanics and human development for patients with medical conditions and/or disabilities.

ROP THERAPY AND REHABILITATION SERVICES
Open to all Fresno Unified juniors and seniors

DPHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11–12
PREREQUISITE: Preferred therapy and rehabilitation careers or medical careers

This course prepares students to certify in the competencies necessary to become a Rehabilitation Aid and to prepare for a Therapy Assistant program. Students will receive specific instruction on the supervision, roles, responsibilities, and competencies necessary of a Rehabilitation Aide. Students will obtain the technical and functional expertise in the skills, knowledge, abilities and tasks required of an Aide. Students will develop a background in rehabilitation theory and applied health care models. In addition, students will complete clinical hours in rehabilitation services for various populations.
FOODS AND NUTRITION

FHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–10
PREREQUISITE: None

Foods and Nutrition is a comprehensive, applied laboratory-based foods course focusing on the nutrient value, appetite appeal, social significance, and cultural aspects of food. Students will learn about how advanced food preparation concepts in nutrition and various global lifestyles can directly affect health and wellness. This course will explore the role of food in respect to its historical, nutritional, social, environmental, and industrial contexts.

ROP CULINARY ARTS*

Open to all Fresno Unified juniors and seniors

RHS

DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11–12
PREREQUISITE: None

Culinary Art and Design focuses on food service, the hospitality industry and the art and design significance of various cuisines, and popular dishes from around the world. Students utilize physical skills of the industry and answer essential questions driven by thematic CTE units while applying their knowledge and skills with reference to the Common Core ELA standards. Upon completion, students will have been exposed to the necessary skills required by the industry for an introductory level position with an understanding of how art and design are a critical element of food composition, preparation, and presentation. Option to earn college credit in high school; see instructor for information.

INFORMATION & COMMUNICATION TECHNOLOGIES

ADVANCED WEB DEVELOPMENT

PSE

DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11
PREREQUISITE: Web Development

Advanced Web Development is designed to help students gain the advanced programming skills needed to create sites to market and sell their entrepreneurial products and/or services. In the course, students will learn and be able to build webpages in Javascript. Students will also learn AngularJS as part of their development in MEAN stack. In Javascript and MEAN, students will build web applications, content management systems, mobile responsive web applications, e-commerce web applications, and CRUD applications. The Advanced Web Programming course will enable students to solve line-of-business problems for small and growing organizations. The web solutions they create will automate tasks that alleviate time and cost from the startups students create.

AP COMPUTER SCIENCE A

EHS, SHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 11–12
PREREQUISITE: None

AP Computer Science course is designed as a collegiate-level introductory course in computer science. The course will emphasize the development of computer programs or parts of programs that correctly solve a given problem and the design issue that make programs understandable, adaptable, and, when appropriate, reusable. All student responses involving code on the Advanced Placement examination must be written in Java. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP COMPUTER SCIENCE PRINCIPLES

EHS

DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 10–11
PREREQUISITE: None

AP Computer Science Principles is the second course in the Computer Science Program. Students will continue to build upon their knowledge from year one; learning the fundamentals of computing including problem solving, working with data, understanding the Internet, cybersecurity, and basic programming. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions.

COMPUTER SCIENCE AND SOFTWARE ENGINEERING PLTW

BHS, EHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 9–10
PREREQUISITE: None

The course aims to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students’ awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. Projects and problems include app development, visualization of data, cybersecurity, and simulation.
In the Web Development course, students will construct robust and interactive websites using the latest features of HTML, CSS and responsive web design. Students will develop a strong understanding of HTML5 and CSS3 and learn to apply those skills to develop websites that adapt to varying screen sizes, pixel densities and connection speeds. The course will focus on the intricacies of responsive and mobile-centric design and development technologies including media queries, fluid grids and responsive images. In addition to front-end coding, students will also learn the components of UI/UX design. The course will cover effective layouts and best practice options for navigation, search, registration/account management and web copy style.

This course emphasizes welding and fabrication skills, including non-ferrous metals. The primary emphasis is on using equipment in multiple positions of welding with the application of welding skills learning through project fabrication, repair and industry procedure simulations.

Through this course, students will demonstrate their skills in the art of writing and production. All forms of journalistic writing and layout design will be covered to produce student publications. Industry standard software will be used to complete writing and layout assignments. Students will also demonstrate their ability to gather information independently, organize the information for effective writing, and work with their peers to make deadlines.

This course provides students an opportunity to develop a better understanding of multiple facets of the manufacturing industry. Students learn about the manufacturing processes, product design, robotics, programing, maintenance and automation. Students develop their knowledge and skills of Computer Aided Design and Manufacturing to produce products using various CNC and other equipment. Students apply knowledge and skills gained as they collaborate to design, build and program factory system models. Option to earn college credit in high school; see instructor for information.

In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. Students engage in conversations about complex academic and real-world issues through a variety of lenses, considering multiple points of view in order to engage in deep interdisciplinary exploration. Exploring different points of view and making connections across disciplines are fundamental components of the AP Seminar experience. The thematic focus of AP Seminar at Patiño School of Entrepreneurship is on business and startup company case studies, which provides students with a master of business administration experience in a secondary setting. This is part of a two course series for a special AP Capstone certificate.
BUSINESS STARTUP INCUBATOR
PSE
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 11
PREREQUISITE: Web Development, Online Marketing

In the Business Startup Incubator course students will learn the lean startup process for starting a business. As they learn, students will form teams to launch their businesses using this model. This course culminates with students pitching their business models to a committee for startup capital to launch their business. In addition to gaining startup skills and understanding, the process of business creation will help students develop critical thinking, problem-solving, and collaboration skills. The process of planning and launching a business creates and environment that fosters these skills in a real world setting.

ENTREPRENEURSHIP & MARKETING*
BHS, EHS, FHS, MHS, RHS
DURATION: Year Course
a–g DESIGNATION: g
GRADES: 10-12
PREREQUISITE: Business Innovation and Design and/or Multimedia recommended

This course is designed to help students understand how the economy operates and to help students better prepare to make decisions as consumers, wage earners, and citizens within that economy. The history and study of financial markets and institutions are highlighted as financial issues facing citizens and government policy-makers in the United States and abroad are reflected in accessibility and equity. Option to earn college credit in high school; see instructor for information.

ENTREPRENEURSHIP IN A GLOBAL SOCIETY
FHS
DURATION: Year Course
a–g DESIGNATION: g
GRADES: 10-11
PREREQUISITE: None

Marketing Academy students study economics, market research, sales, and advertising while working in a team environment. Through integrated curriculum projects, students gain a better understanding of business principles, retail selling, salesmanship, entrepreneurship, and advertising and event planning. Workplace skills and competencies are also addressed.

ONLINE MARKETING
PSE
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 10
PREREQUISITE: None

Students in Online Marketing will investigate, evaluate and create various marketing and communication strategies for the internet. Great emphasis is put on critical evaluation and website planning, development, design and creating content for effective online marketing campaign. In addition to the application of effective online marketing campaigns, students will gain an understanding of HTML, CSS and responsive web design as it pertains to successful online marketing. Students will gain detailed knowledge in building a robust online marketing campaign and have a basic understanding of front-end web development skills.

ROP CAREERS IN SALES & MARKETING
Open to all Fresno Unified juniors and seniors
DPHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: ROP Small Business Management recommended

This course is designed to prepare students for employment and career exploration in the marketing field. Students develop competencies and gain knowledge to prepare them to pursue careers in the sales/marketing field. These include introduction and/or knowledge to sales/marketing technology, marketing/business management fundamentals, international marketing, human relation skills, interpersonal communications, customer service, advertising and promotion principles, merchandising techniques, and security and loss prevention. Community or cooperative classroom experiences are available.

ROP MARKETING COMMUNICATIONS
Open to all Fresno Unified juniors and seniors
CHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

This course provides students with a broad background to the nature & scope of marketing concepts as they apply to integrated marketing communications. Students will gain skills in the principles and elements of design and they will be challenged through the production of creative solutions for promoting a variety of products and services.
PUBLIC SERVICES

BULLETS OF TRUTH UCCI
BHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 9
PREREQUISITE: Enrollment in Law & Social Justice Pathway

Bullets of Truth: A Search for Justice in a World of Injustice is a college preparatory 9th grade English course integrated with Law and Social Justice careers to enable students to understand where the skills of English intersect with the elements of law. Students utilize a variety of technological tools to create online polls, blogs, and presentations which all leads up to writing a proposal which provides a solution to a local or global issue and presenting this proposal to an authentic audience.

CRIMINAL INVESTIGATION
HHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

The Criminal Investigation course is designed to develop an awareness of the various components of criminal investigation. The emphasis is placed on the development of attitudes, skills and competencies related to criminal investigation. This course introduces the student to the study of criminal investigative techniques and analysis. The focus throughout the course will be collection, protection, and preservation of evidence as it relates to the investigative process. Throughout this course, writing and technology will be emphasized.

CRIMINAL JUSTICE AND LAW
BHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 9
PREREQUISITE: Enrollment in Law & Social Justice Pathway

Criminal Justice and Law provides students with an overview of the criminal and juvenile justice systems. Throughout the course, they explore the meaning of crime and justice, and the relationship between criminal justice and social justice. Students learn how and why the criminal justice system functions. Students also learn about advocacy and policy by researching how individuals and groups, including young people, can take action to reform our legal system.

EMERGENCY MEDICAL TECHNICIAN
RHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 12
PREREQUISITE: Summer EMT boot camp

The primary focus of the Emergency Medical Technician (EMT) is to provide basic emergency medical care and transportation for critical and emergent patients who require access to the emergency medical system. Emergency Medical Technicians possess the basic knowledge and skills necessary to provide initial patient care, including interventions with the basic equipment typically found on an ambulance, and stability during transport to medical care facilities. Emergency Medical Technicians provide a link from the crisis scene to the emergency health care system and function as part of a comprehensive EMS response, under medical oversight.

FIREFIGHTING TECHNOLOGY
HHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

The course is designed to prepare individuals for fighting fires and related tasks. The course is the California State Fire Marshal Fire Fighter I, which prepares students for State certification or entry into a certified academy. Wild land firefighting will also be taught in conjunction with other fire fighter concepts and competencies. Practical experience will be gained through live fire and simulated exercises relating to the theory taught in the classroom. First Responder medical aid will also be a part of the course to provide the students with the knowledge and skills necessary to adequately assess and provide care for victims at the scene of injury.

FORENSIC RESEARCH
BHS
DURATION: Year Course
a–g DESIGNATION: g
GRADES: 9-10
PREREQUISITE: None

Students use investigative science techniques to solve intriguing problems involving the law. Scientific evidence, DNA, fingerprinting, physical science, and crime scene reconstruction are used to create a picture of what happened in the past.

HISTORY OF PUBLIC SAFETY
HHS
DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 9
PREREQUISITE: None

The History of Public Safety is a year-long academically-enriched course that provides students with research-based reading strategies and integrated academic activities to build comprehension and reinforce key academic concepts, all within the context of Public Services. Criminal investigation, emergency response, and firefighting topics are infused throughout curriculum projects to provide a conceptual framework for understanding the role of public services within our community. Upon successful completion of the course, students receive Incident Command System, ICS 100.b (FEMA) certification.
PHYSICAL EDUCATION FOR PUBLIC SERVICE

HHS

DURATION: Semester Course
a–g DESIGNATION: None
GRADERS: 10
PREREQUISITE: None

This course is designed for students interested in careers in public safety careers including law enforcement, fire and paramedic service and Emergency Medical Technician (EMT). It is a boot camp format with emphasis on aerobic and strength training, Confidence Course competency, flexibility, and training principles. Physical assessment will take place at the beginning and conclusion of the course.

TRANSPORTATION

AUTO TECHNOLOGY I

DPHS

DURATION: Year Course
a–g DESIGNATION: None
GRADERS: 9–10
PREREQUISITE: None

Students learn the theory and practice for the car owner and driver. Students learn safety in the procedures for troubleshooting common problems with minimum of tools. Students apply skills in automotive preventative maintenance, fair labor pricing, and early recognition of symptoms of trouble.

ROP AUTO SYSTEMS TECHNOLOGY*

Open to all Fresno Unified juniors and seniors

DPHS

DURATION: Year Course
a–g DESIGNATION: None
GRADERS: 11–12
PREREQUISITE: None

Auto Systems is intended to give the student practical hands-on experience in diagnosing, troubleshooting and service procedures in the automotive field. The course also covers shop practice of maintenance and repair in the automotive specialty areas. These areas include: drive trains and axles, suspension and steering, brakes, air conditioning, parts technician and job seeking skills. Option to earn college credit in high school; see instructor for information.

ENGLISH

AP ENGLISH LANGUAGE & COMPOSITION

BHS, DPHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: b
GRADERS: 11–12
PREREQUISITE: None

This course focuses on the improvement of students’ abilities to read closely and analyze linguistic choices in complex texts and on the development of writers that demonstrate their aptitude in the elements of rhetoric. Students will be engaged in varied reading across modes and genres covering a variety of topics with the goal of learning about the choices writers make regarding text in order to serve their purpose. In addition, students will be honing their writing skills as they become more aware of the rhetorical devices available to them when writing literary analysis, arguments, and research. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP ENGLISH LITERATURE & COMPOSITION

BHS, DPHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: b
GRADERS: 12
PREREQUISITE: AP Language and Composition recommended

AP Literature covers a wide breadth of topics and skills, including: diction and language style analysis, forms of discourse and the refining of rhetorical style for effect. Students engage in critical reading and analysis of imaginative literature of representative works from various genres and periods. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

APPLIED MEDICAL ENGLISH UCCI

RHS

DURATION: Year Course
a–g DESIGNATION: b
GRADERS: 11–12
PREREQUISITE: None

This course provides students the chance to design and implement a complex learning experience that represents their interests, the knowledge and skills they have gained in school, and their current visions for future education and work. While each student’s work is unique, research will include involvement of an adult within the community, research that leads to increased knowledge and makes a contribution to society, and conducting an experiment, seeking a solution or inventing something original. Students will need to be enrolled in both ROP Allied Health Careers and Applied Medical English.
**Bible as Literature**

**EHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** b  
**GRADES:** 11–12  
**PREREQUISITE:** None

This course is designed for students who want to improve their reading and writing ability as they learn to interpret literature. It provides them an opportunity to explore various Biblical genres, images, symbols, motifs, metaphors, figures of speech, and literary patterns. The course focuses on literary analysis, authors, and parallel themes that have influenced Western Civilization since the time of Moses.

**Bullets of Truth UCCI**

**BHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** Pending, in review  
**GRADES:** 9  
**PREREQUISITE:** Enrollment in Law & Social Justice Pathway

Bullets of Truth: A Search for Justice in a World of Injustice is a college preparatory 9th grade English course integrated with Law and Social Justice careers to enable students to understand where the skills of English intersect with the elements of law. Students utilize a variety of technological tools to create online polls, blogs, and presentations which all leads up to writing a proposal which provides a solution to a local or global issue and presenting this proposal to an authentic audience.

**Content Reading**

**MHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** None  
**GRADES:** 11–12  
**PREREQUISITE:** None

This intervention course helps support EL students who need to develop or are lacking academic literacy skills to access the core curriculum. This is very similar to the course of study for Language Arts Intervention, but with an emphasis on supporting EL students who are enrolled in SDAIE classes in core content areas.

**English I**

**BHS, CHS, DHS, DPHS, EHS, FHS, HHS, JEY, MHS, RHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** b  
**GRADES:** 9  
**PREREQUISITE:** None

English I is a California standards-based course. It guides the student through the process of literary analysis, vocabulary development, critical thinking skills, research skills and interpretation of functional workplace documents and expository text. The writing process and language skills are emphasized.

**English I Gate**

**BHS, DPHS, DSHS, EHS, FHS, HHS, MHS, RHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** b  
**GRADES:** 9  
**PREREQUISITE:** None

English I HONORS/GATE is designed for the accelerated freshman and is based on the California standards for English-Language Arts. Sophisticated levels of literary forms and types, as well as style and structure are emphasized. Curriculum guides the student through the process of literary analysis, vocabulary development, critical thinking skills and research skills. The writing process and language skills are emphasized.

**English II**

**BHS, CHS, DHS, DPHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** b  
**GRADES:** 10  
**PREREQUISITE:** None

English II is a California standards-based course designed to support students gain the reading and writing background necessary for successful college work. Students read novels, drama, poetry, and expository selections. From this array of literature, students complete a variety of assignments, including group work, journal writing, essays, and analysis pieces. Oral presentations, library research and media studies are embedded throughout the year.

**English II Gate**

**BHS, DPHS, DSHS, EHS, FHS, HHS, MHS, RHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** b  
**GRADES:** 10  
**PREREQUISITE:** None

This standards-based course is designed to aid honors and gifted students with the reading and writing background necessary for successful college and university work. This course will include seminars, comparative literature, and basic research skills. Language studies focus on thesis writing and thesis support and include a review of grammar and usage as necessary for effective written expression.

**English III**

**BHS, CHS, DHS, DPHS, EHS, FHS, HHS, JEY, MHS, RHS, SHS**

**DURATION:** Year Course  
**a–g DESIGNATION:** b  
**GRADES:** 11  
**PREREQUISITE:** None

English III focuses on American literature and culture and is aligned to CA ELA standards. Students study numerous American classics and contemporary works and the interrelated tenets of philosophy, art, architecture, and music that influence the development of the American character in literature.
ENGLISH III HONORS
DSHS, EHS, MHS, PSE, SHS

DURATION: Year Course
a–g DESIGNATION: b
GRADES: 11
PREREQUISITE: English II Gate

This course in American literature and culture includes a study of some of the American classics and contemporary works. It includes content significant to the past and present of the American character development. This course will use the dimensions of depth and complexity to differentiate for the needs of accelerated students.

ENGLISH IV
CHS, JEY

DURATION: Year Course
a–g DESIGNATION: b
GRADES: 12
PREREQUISITE: None

This is a comprehensive English course aligned to California ELA standards and prepares students for college language arts skills. Students read from a global selection of poetry, drama, narrative and expository prose and write and revise for a variety of purposes.

EXPOSITORY READING & WRITING
BHS, DPHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: b
GRADES: 12
PREREQUISITE: None

This course is for college-bound seniors needing to prepare specifically for the literacy demands of higher education. It is a standards aligned course designed to develop advanced proficiencies in expository, analytical, and argumentative reading and writing. Students read, comprehend, and respond to non-fiction and literary texts. Course texts include fiction, contemporary essays, newspaper and magazine articles, editorials, reports, biographies, memos, assorted public documents, and other non-fiction texts.

FORENSICS I-IV
BHS, EHS, MHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 9–12
PREREQUISITE: None

Forensics is a course in competitive speech which provides the student with the opportunity to manifest oral skills through preparation for, and participation in interscholastic speech. A variety of speech events provide exposure to acting with humorous or dramatic interpretations: research skills with original events and critical analysis with writing in preparation for events. The course also encourages a creative outlet for young writers with a prose/poetry emphasis.

IB ENGLISH HIGHER LEVEL
FHS

DURATION: Year Course
a–g DESIGNATION: b
GRADES: 11–12
PREREQUISITE: None

International Baccalaureate English Higher Level and Standards Level are separate two-year courses. They are designed to expand a student’s global perspective of life common to all humanity. Students will carefully study translated literary works of different time periods, settings, and genres. To review specific IB course information, visit www.ibo.org; see counselor for information.

IMPROVISATION / PLAYWRITING
HHS, RHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 10–12
PREREQUISITE: None

This course emphasizes artistic writing skills to create theatre pieces, acting, and theatre literature and history. Students study the works of modern contemporary playwrights such as Ibsen, Shaw, Wilson, Hellman, O’Neill, Williams, and more and write their own one-act play which can be produced by the Directing class or staged as Readers Theatre.

JOURNALISM I-III
BHS, EHS, FHS, MHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 10–12
PREREQUISITE: None

This course teaches students how to write for and read newspapers; it is a required course for those desiring to work for the school newspaper. Also included in the course are some specialized mass media writing techniques such as magazine, radio, television, and advertising. Advanced courses allow students to take part in the actual production and publication of the school newspaper. Each course includes advanced work in copy and proofreading, advertising techniques and business managing, make-up, all types of advanced newspaper writing, basic newspaper publishing techniques, specialized typesetting, press work and photography. Students enrolling in the course should be willing to spend extra time outside of class in completing the various aspects of publishing the newspaper.

LANGUAGE ARTS INTERVENTION
BHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: None

This course reflects the research-based elements of effective adolescent literacy programs. Instruction includes comprehension strategies to support content course learning, vocabulary development, text structure, fluency, motivation and self-directed learning. It is designed primarily for 9th graders reading up to two levels below grade level.
ROP JOURNALISM AND PUBLISHING CAREERS
Open to all Fresno Unified juniors and seniors

SHS
DURATION: Year Course
a–g DESIGNATION: b
GRADES: 11-12
PREREQUISITE: 10th grade English and instructor permission

Through this course, students will demonstrate their skills in the art of writing and production. All forms of journalistic writing and layout design will be covered to produce student publications. Industry standard software will be used to complete writing and layout assignments. Students will also demonstrate their ability to gather information independently, organize the information for effective writing, and work with their peers to make deadlines.

ENGLISH LANGUAGE DEVELOPMENT (ELD)

ELD BEGINNING
All comprehensive high schools with newcomers and relative newcomer ELs
Non-grade specific

DURATION: Year Course
PREREQUISITE: None
(2 instructional periods daily) (20 units)

A course for English Learner students who have had little or no formal instruction or experience in English. It is designed to build beginning social and academic language skills. The curriculum is aligned to the ELD standards.

ELD BEGINNING / LANGUAGE ARTS
All comprehensive high schools with newcomers and relative newcomer ELs
Non-grade specific

DURATION: Year Course
a–g DESIGNATION: None
PREREQUISITE: None

A course designed for English Learner students who have little or no formal instruction or experience in English. The course stresses listening and speaking along with reading and writing. The class has a curriculum that is aligned to ELA and ELD standards. This class fulfills the language arts requirement for those students for whom there is no language arts program in their primary language. It is paired with ELD Beginning to provide 2 instructional periods daily.

ELD EARLY ADVANCED
All comprehensive high schools with newcomers and relative newcomer ELs
Non-grade specific

DURATION: Year Course
a–g DESIGNATION: None
PREREQUISITE: ELD Intermediate and ELD Intermediate/Language Arts or equivalent from country of origin.

This course is designed for students at the early advanced level of English Language Proficiency. It is designed to continue the development of social and academic language skills and to improve the students’ abilities to use complex structures and language functions that are important for student success in the core curriculum and is aligned to ELD and ELA standards.

ELD INTERMEDIATE
All comprehensive high schools with newcomers and relative newcomer ELs
Non-grade specific

DURATION: Year Course
PREREQUISITE: ELD Beginning or equivalent from country of origin.
(2 instructional periods daily) (20 units)

A course designed for those students who have completed ELD Beginning, and who are at the intermediate level of proficiency. The course continues to develop listening, speaking, reading, and writing competencies. The curriculum is aligned to ELD standards.

ELD INTERMEDIATE/LANGUAGE ARTS
All comprehensive high schools with newcomers and relative newcomer ELs
Non-grade specific

DURATION: Year Course
PREREQUISITE: ELD Beginning/Language Arts or equivalent from country of origin.

This course is designed for those students who have completed ELD Beginning and are at the intermediate level of proficiency. The course is aligned to ELA and ELD standards and fulfills the language arts requirement for those students for whom there is no language arts program in their primary language. It is paired with ELD Intermediate to provide 2 instructional periods daily.
HISTORY / SOCIAL SCIENCE

AMERICAN GOVERNMENT
BHS, CHS, DHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, RHS, SHS

DURATION: Semester Course
a–g DESIGNATION: a
GRADES: 12
PREREQUISITE: None

In this course, students pursue a deeper understanding of the institutions of American government. They compare systems of government in the world today and analyze the history and changing interpretations of the Constitution, the Bill of Rights, and the current state of the legislative, executive, and judiciary branches of government. An emphasis is placed on analyzing the relationship among federal, state, and local governments, with particular attention paid to important historical documents. These standards represent the culmination of civic literacy as students prepare to vote, participate in community activities, and assume the responsibilities of citizenship.

AP GOVERNMENT AND POLITICS US
BHS, DPHS, EHS, HHS, MHS, RHS, SHS

DURATION: Semester Course
a–g DESIGNATION: a
GRADES: 12
PREREQUISITE: None

The AP Government & Politics United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP EUROPEAN HISTORY
BHS, DPHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: a
GRADES: 10
PREREQUISITE: None

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (1) an understanding of some of the principle themes in modern European History, (2) an ability to analyze historical evidence and historical interpretation, and (3) an ability to express historical understanding in writing. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP HUMAN GEOGRAPHY
BHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: a
GRADES: 9
PREREQUISITE: None

The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP MACROECONOMICS
HHS, MHS, SHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 11–12
PREREQUISITE: None

AP Macroeconomics is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, and also develops a familiarity with economic performance measures, economic growth, and international economics. Macroeconomics describes the financial environment we all live in as well as the impact of government decisions on both the individual and the business community. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP MICROECONOMICS
EHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 11–12
PREREQUISITE: None

AP Microeconomics provides a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Individual businesses are studied to provide an understanding of why people go into business, how business decisions are made, and their impact on society. In addition, attention will be given to the impact of taxation and the causes of supply and demand. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.
AP PSYCHOLOGY

BHS, EHS, HHS, MHS, SHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 11–12
PREREQUISITE: None

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to topics including a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They will also learn about the ethics and methods psychologists use in their science and practice. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP UNITED STATES HISTORY

BHS, DPHS, EHS, HHS, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: a
GRADES: 11
PREREQUISITE: None

The AP program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials from the pre-Columbian era to the present. Students will learn to assess historical materials — their relevance to a given interpretive problem, their reliability, and their importance — and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

CRIMINAL JUSTICE AND LAW

BHS

DURATION: Year Course
a–g DESIGNATION: Pending, in review
GRADES: 9
PREREQUISITE: Enrollment in Law & Social Justice Pathway

Criminal Justice and Law provides students with an overview of the criminal and juvenile justice systems. Throughout the course, they explore the meaning of crime and justice, and the relationship between criminal justice and social justice. Students learn how and why the criminal justice system functions. Students also learn about advocacy and policy by researching how individuals and groups, including young people, can take action to reform our legal system.

ECONOMICS

BHS, CHS, DHS, DPHS, DSHS, EHS, FHS, HHS, JAY, MHS, RHS, SHS

DURATION: Semester Course
a–g DESIGNATION: g
GRADES: 10–12
PREREQUISITE: None

Students not only master fundamental economic concepts, but also apply the tools of an economist (graphs, statistics, and equations). Initially introduced in other curricular areas, these tools support student understanding of operations and institutions of economic systems. Studied in a historic context are the basic economic principles of micro-and macroeconomics, international economics, comparative economic systems, measurement, and methods.

IB HISTORY HIGHER LEVEL

FHS

DURATION: 2 Year Course
a–g DESIGNATION: a
GRADES: 11-12
PREREQUISITE: None

The History of the Americas is the two-year social studies component of the IB program. The principle focus of the course is the history of the United States and the Latin American countries during the twentieth century. This focus is broadened to include inter-American relationships and global themes in a world historical context. The History of the Americas is studied from a thematic approach. Thus, the course emphasis is placed on the study of twentieth century wars and the issues raised by the Cold War. The second year is then focused on the themes of the Americas particularly relations between the U.S. and Latin America. To review specific IB course information, visit www.ibo.org; see counselor for information.

IB PSYCHOLOGY HIGHER LEVEL

FHS

DURATION: Year Course
a–g DESIGNATION: g
GRADES: 11–12
PREREQUISITE: None

The IB Psychology course will focus on many different aspects of psychology, with the major emphasis being on the three perspectives of psychology: behavioral, cognitive, and learning perspectives. Along with the study of the psychodynamic perspective, this course will also cover the history of psychology, research methods, APA ethical guidelines, conceptual framework, basic assumptions, and psychological perspectives. Throughout the course, cultural contexts, methodologies, framework, and applications to the real world will be emphasized. To review specific IB course information, visit www.ibo.org; see counselor for information.
IB THEORY OF KNOWLEDGE

FHS

DURATION: Year Course  a–g
DESIGNATION: g
GRADES: 11–12
PREREQUISITE: None

Theory of Knowledge is designed as a discussion class in which ideas can be thoroughly explored and debated. Critical thinking and analysis will be a constant theme. Students will discuss those who know and ways of knowing and be introduced to logic, rhetoric, and philosophy. The course will explore how knowledge is similar and different in different disciplines, including politics, math, science, social studies, history, and the arts. Course participants will discuss knowledge and how thought is expressed through language as well as how different cultures express knowledge in very different ways.

To review specific IB course information, visit www.ibo.org; see counselor for information.

MODERN WORLD HISTORY

BHS, CHS, DHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS

DURATION: Year Course  a–g
DESIGNATION: a
GRADES: 10
PREREQUISITE: None

Students study major turning points that shaped the modern world, from the late eighteenth century to the present. Connections to the past are viewed through the rise of democratic ideas from ancient Greece to the influence of the enlightened thinkers on democratic revolutions. In addition, these significant historical events will be examined as they developed from political, economic, social, cultural and geographic factors. In all of this, emphasis will be placed on helping students understand the historical roots of current world issues.

MODERN WORLD HISTORY HONORS/GATE

EHS, FHS

DURATION: Year Course  a–g
DESIGNATION: a
GRADES: 10
PREREQUISITE: None

Modern World History HONORS/GATE emphasizes imparting high-level skills to accelerated students. Students study major turning points that shaped the modern world, from the late eighteenth century to the present. Connections to the past are viewed through the rise of democratic ideas from ancient Greece to the influence of the enlightened thinkers on democratic revolutions. In addition, these significant historical events will be examined as they developed from political, economic, social, cultural and geographic factors. In all of this, emphasis will be placed on helping students understand the historical roots of current world issues.

PSYCHOLOGY

BHS, DPHS, PSE, SHS

DURATION: Year Course  a–g
DESIGNATION: g
GRADES: 12
PREREQUISITE: None

Psychology deals with such topics as learning theory, problem solving, individual differences, personality, mental health, growth and development, sensation and perception, personal and social adjustment, measurement, marriage and the family, and parapsychology. Student-centered activities and goals are determined under the direction and supervision of the teacher.

RACE & SOCIAL JUSTICE IN US HISTORY

BHS, CHS, EHS, FHS, HHS, MHS, SHS

DURATION: Year Course  a–g
DESIGNATION: a
GRADES: 11–12
PREREQUISITE: None

This course is designed to meet the standards by viewing U.S. History through different perspectives. This course looks at the role different races, minorities, and ethnicities played in history. For example, rather than simply discussing the effect of the Great Depression on Americans in general, we will look at the case of the Scottsboro Boys, and how it related to the social effects and politics of the Great Depression.

UNITED STATES HISTORY / HONORS

BHS, CHS, DHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS

DURATION: Year Course  a–g
DESIGNATION: a
GRADES: 11
PREREQUISITE: None

Students in grade eleven study the major turning points in American history from the late nineteenth century to the present. They trace the change in the ethnic composition of American society; the movement toward equal rights for racial minorities and women; and the role of the United States as a major world power. They consider the major social problems of our time and trace their causes in historical events. Students understand that our rights under the U.S. Constitution are a precious inheritance that depends on an educated citizenry for their preservation and protection.
LANGUAGE OTHER THAN ENGLISH

AMERICAN SIGN LANGUAGE I

HHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–12
PREREQUISITE: None

Students with no prior knowledge of American Sign Language will be able to function comfortably in a variety of situations with deaf people. Topics revolve around sharing information about our environment and ourselves. Grammar is introduced in context, with an emphasis on developing question and answer skills. Students will learn basic conversational strategies to help them maintain a conversation. An emphasis is placed on becoming aware of the cultural adjustments necessary for the hearing person to communicate with the Deaf and learn to respect differences in cultures other than their own through literature and interaction. Basic survival language skills will be emphasized through various activities and projects.

AMERICAN SIGN LANGUAGE II

HHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–12
PREREQUISITE: None

This course is designed to help students continue to learn a visual-gestural language (American Sign Language) used by the Deaf community in the United States and Canada. It will broaden students' understanding of the culture of the Deaf community and its appropriate behaviors. Students will also be engaging in conversation using ASL at a level expected for intermediate signers.

AP FRENCH LANGUAGE AND CULTURE

EHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 11
PREREQUISITE: French III or instructor recommendation

This college-level course emphasizes the use of spoken language, written language, and listening comprehension. Students will prepare for the AP French Language Examination through discussion, debates, dramatizations, taped exercises, poetry, plays, and novels. To review specific AP course credit, visit www.collegeboard.org; see counselor for information. Course is conducted in the target language.

AP GERMAN LANGUAGE AND CULTURE

EHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 11–12
PREREQUISITE: German IV or instructor recommendation

This college-level course emphasizes the use of spoken language, written language, and listening comprehension. Students will prepare for the AP German Language Examination through discussion, debates, dramatizations, taped exercises, poetry, plays, and novels. To review specific AP course credit, visit www.collegeboard.org; see counselor for information. Course is conducted in the target language.

AP SPANISH LANGUAGE

BHS, DPHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 11–12
PREREQUISITE: Spanish IV, Spanish for Native Speakers II or instructor recommendation

This college-level course emphasizes the use of spoken language, written language and listening comprehension. Students will prepare for the AP Spanish Language Examination through discussion, debates, dramatizations, taped exercises, poetry, plays, and novels. To review specific AP course credit, visit www.collegeboard.org; see counselor for information. Students who are successful in this course will be encouraged to enroll in AP Spanish Literature the following year. Course is conducted in the target language.

AP SPANISH LITERATURE

EHS, MHS. RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 11–12
PREREQUISITE: AP Spanish Language or instructor recommendation

AP Spanish Literature is a college-level course with in-depth instruction and practice in written composition and literature. To review specific AP course credit, visit www.collegeboard.org; see counselor for information. Course is conducted in the target language.

FRENCH I

BHS, EHS, FHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–10
PREREQUISITE: None

The emphasis in this course for beginners is learning to speak the language in practical situations and introducing students to the culture and customs of French-speaking people. Some reading and writing will be included. Course is conducted in the target language as much as possible.
**FRENCH II**  
**BHS, EHS, FHS, PSE, RHS, SHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 9–12  
- **PREREQUISITE:** French I or instructor recommendation  

French II is the continuation of spoken and written French and the study of the customs of various French-language cultures. Course is conducted in the target language.

**FRENCH III**  
**BHS, EHS, SHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 11–12  
- **PREREQUISITE:** French II or instructor recommendation  

This course is an advanced study of French and French-speaking culture, including extensive reading and writing. Students who are successful in this course will be encouraged to enroll the following year in Advanced Placement French or French IV. Course is conducted in the target language.

**FRENCH IV H**  
**EHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 11–12  
- **PREREQUISITE:** German III or instructor recommendation  

This course provides an in-depth study of French culture and civilization including the customs of various French-speaking peoples, music, history, sports, literature, fine foods, cinema, art, and drama according to the interests and abilities of students in the course. Students who are successful in this course will be encouraged to enroll in AP French Language the following year. Course is conducted in the target language.

**GERMAN I**  
**BHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 9–10  
- **PREREQUISITE:** None  

The emphasis in this beginning German course is learning to speak the language in practical situations and serves as an introduction to the culture and customs of German-speaking people. Limited reading and writing will be included. Course is conducted in the target language as much as possible.

**GERMAN II**  
**BHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 10–12  
- **PREREQUISITE:** German I or instructor recommendation  

This course is a continuation of spoken German and the study of the customs and culture of Germany. Reading and writing as well as online-based activities is included. Course is conducted in the target language.

**GERMAN III**  
**BHS, EHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 10–12  
- **PREREQUISITE:** German II or instructor recommendation  

This course is an advanced study of German and German-speaking cultures and incorporates extensive reading and writing. Students who are successful in this course will be encouraged to enroll the following year in Advanced Placement German Language or German IV. Course is conducted in the target language.

**GERMAN IV H**  
**EHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 11–12  
- **PREREQUISITE:** German III or instructor recommendation  

This course expands conversation and reading in German. The possibilities for in-depth studies of German culture and civilization including the customs of various German-speaking peoples, music, history, sports, literature, fine foods, cinema, art, and drama align to the interests and abilities of students in the course. Course is conducted in the target language.

**HMONG FOR NATIVE SPEAKERS I**  
**MHS, RHS, SHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 9–10  
- **PREREQUISITE:** Childhood acquisition of Hmong  

This course is designed for students whose home language is either exclusively Hmong or bilingual Hmong/English. Emphasis is on improvement of oral language skills as well as advancement in reading comprehension and writing ability. Other goals include appreciation of Hmong history and culture as well as improved communication between parent and child. Course is conducted in the target language.

**HMONG FOR NATIVE SPEAKERS II**  
**MHS**  
- **DURATION:** Year Course  
- **a–g DESIGNATION:** e  
- **GRADES:** 10–12  
- **PREREQUISITE:** Childhood acquisition of Hmong  

This course is designed for students whose home language is either exclusively Hmong or bilingual Hmong/English. Emphasis is on improvement of oral language skills as well as advancement in reading comprehension and writing ability. Other goals include appreciation of Hmong history and culture as well as improved communication between parent and child. Course is conducted in the target language.
IB FRENCH STANDARD LEVEL

FHS
DURATION: Year Course  
PREREQUISITE: French II or instructor recommendation  

This standard-level course is intended for students of the IB Program. Students complete their oral and written assessment for IB. If students pass the exam at the end of the course, students receive college credit. To review specific IB course information, visit www.ibo.org; see counselor for information.

IB LATIN STANDARD LEVEL / LATIN IV

FHS
DURATION: Year Course  
PREREQUISITE: Latin III  

This standard-level course is intended for students of the IB Program. This is an intensified study of a Roman author specified by International Baccalaureate. Students explore the author’s work by studying the historical, cultural, and linguistic origins. To review specific IB course information, visit www.ibo.org; see counselor for information.

IB SPANISH STANDARD LEVEL

FHS
DURATION: Year Course  
PREREQUISITE: Spanish III, Spanish for Native Speakers, AP Spanish  

This standard-level course is intended for students of the IB Program. Students complete their oral and written assessment for IB. The exam given at the end of the course, if passed, grants a student college credit. To review specific IB course information, visit www.ibo.org; see counselor for information.

IB SPANISH HIGHER LEVEL (HL) YEAR 1 AND 2

FHS
DURATION: Year Course  
PREREQUISITE: None  

Spanish IB HL is a language acquisition course developed at the higher level (HL) for students with some background in the Spanish language. Spanish IB HL approaches the learning of language through meaning and culture. Through the study of the core and the options at SL and HL, plus two literary works at HL, students build the necessary skills to reach the assessment objectives of the language B course through the expansion of their receptive, productive, and interactive skills. SL and HL are differentiated by the recommended number of teaching hours, the depth of the syllabus coverage, the study of literature at HL, and the level of difficulty and demands of assessment and assessment criteria.

LATIN I

FHS
DURATION: Year Course  
PREREQUISITE: None  

Latin I is an introduction to Latin and classical studies. The emphasis in this course is on learning to read Latin. The study of Latin will help students to develop and expand their vocabulary and skills in language analysis. Study of the culture and history of the Romans is also included. Course is conducted in the target language as much as possible.

LATIN II

FHS
DURATION: Year Course  
PREREQUISITE: Latin I  

Latin II is a continuation of Latin I with an additional emphasis on reading, writing, and the cultural heritage from Rome. In addition to advancing their translation, conjugation and vocabulary skills, students are exposed to Roman and Greek authors, art, and architecture.

LATIN III

FHS
DURATION: Year Course  
PREREQUISITE: Latin II or instructor recommendation  

This course is an introduction to the study of a Roman author specified by International Baccalaureate. Students explore the author’s work by studying the historical, cultural, and linguistic origins.

MANDARIN CHINESE I

HHS
DURATION: Year Course  
PREREQUISITE: None  

Mandarin Chinese I introduces students to vocabulary and grammatical structure of everyday situations with an emphasis on oral communication. Students gain comprehension in character writing of basic sentence structures. Students also develop an appreciation for the Chinese culture, both ancient and modern. Course is conducted in the target language as much as possible.

MANDARIN CHINESE II

HHS
DURATION: Year Course  
PREREQUISITE: Mandarin Chinese I or instructor recommendation  

Mandarin Chinese II extends the student’s ability in oral comprehension and speaking for direction comprehension without translation. Practice is given in using language structures, writing adapted dialogues, and writing from dictation. Notable figures in Chinese history, art, literature, music and science are introduced.
MANDARIN CHINESE III

HHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 11–12
PREREQUISITE: Mandarin Chinese II or instructor recommendation

Mandarin Chinese III enhances the student’s ability to think critically in the Chinese language through the study of literature. Appreciation of China’s modern and ancient art and literature is the focus of this course.

SPANISH I

BHS, DPHS, EHS, FHS, HHS, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–10
PREREQUISITE: None

Spanish I is an introduction to the language through vocabulary and grammatical structures presented through thematic units with an emphasis on oral, listening, reading and writing expressions. Students will develop an appreciation for the Hispanic culture and its influence throughout the world. Course is conducted in the target language as much as possible.

SPANISH II

BHS, DPHS, EHS, FHS, HHS, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–12
PREREQUISITE: Spanish I or instructor recommendation

This course is a continuation of spoken and written Spanish and the study of the customs of various Spanish-language cultures and is not intended for native speakers of Spanish. Course is conducted mainly in the target language.

SPANISH III

BHS, DPHS, EHS, FHS, HHS, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–12
PREREQUISITE: Spanish II (with a grade of A or B) or instructor recommendation

This course is an advanced study of Spanish and Spanish-speaking cultures and is not intended for native speakers of Spanish. Students who are successful in this course will be encouraged to enroll in Advanced Placement Spanish Language or Spanish IV. Extensive reading and writing with advanced grammatical points are emphasized. Course is conducted in the target language.

SPANISH IV / H

EHS, FHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 10–12
PREREQUISITE: Spanish III or instructor recommendation

This course expands conversation and reading in Spanish. Possibilities for in-depth studies of Spanish-speaking cultures and civilizations including the customs of various Spanish-speaking peoples, music, history, sports, literature, fine foods, high fashion, cinema, art, and drama are included. This course is not intended for native speakers of Spanish. Students who are successful in this course will be encouraged to enroll in AP Spanish Language the following year. Course is conducted in the target language.

SPANISH FOR NATIVE SPEAKERS I

BHS, DPHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–10
PREREQUISITE: Childhood acquisition of Spanish

The course is designed for students whose home language is either exclusively Spanish or bilingual Spanish/English. Emphasis is on acquisition of academic Spanish as well as advancement in reading comprehension and writing ability. Other goals include appreciation of Latino history and cultures as well as improved communication between parent and child. Course is conducted in the target language.

SPANISH FOR NATIVE SPEAKERS II

BHS, DPHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: e
GRADES: 9–10
PREREQUISITE: Spanish for Native Speakers I or instructor recommendation

This course is a continuation of Native Speakers Level I, with greater emphasis on informational text, literary analysis, and essay writing. Students who are successful in this course will be encouraged to enroll the following year in Advanced Placement Spanish Language. Course is conducted in the target language.
MATHEMATICS

ALGEBRA I
BHS, CHS, DHS, DPHS, EHS, FHS, HHS, JEY, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 7–10
PREREQUISITE: None

Algebra I is the foundation course for all higher mathematics courses and emphasizes the learning of essential concepts which are required for further success in mathematics. Topics include: operations with integers, solving equations and inequalities, exponents, operations with polynomials, graphing in two variables, systems of equations, rational algebraic expressions, and application problems.

ALGEBRA II / ALGEBRA II HONORS/GATE
BHS, CHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 10–11
PREREQUISITE: Algebra I

This course is designed to complement and expand the mathematical content and concepts of Algebra I and Geometry. Students gain an understanding in solving algebraic problems in various content areas, including the solution of systems of quadratic equations, logarithmic and exponential functions, the binomial theorem, and the complex number system.

ALGEBRA & GEOMETRY III
BHS, CHS, DHS, DPHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 11
PREREQUISITE: Algebra and Geometry

This third year integrated math course includes major topics such as: operations with whole numbers, solving equations, including quadratic equations, geometric reasoning, similarities and congruencies, probability, statistics, transformations, and trigonometry.

AP CALCULUS AB
BHS, DPHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 11–12
PREREQUISITE: None

This course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP CALCULUS BC
BHS, EHS, HHS, RHS

DURATION: Semester Course
a–g DESIGNATION: c
GRADES: 11–12
PREREQUISITE: None

AP Calculus BC is an extension of AP Calculus AB and focuses on more advanced topics. This course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP STATISTICS
BHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 12
PREREQUISITE: Algebra II

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students explore data, plan a study, anticipate patterns, and draw statistical inferences. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

GEOMETRY / GEOMETRY HONORS/GATE
BHS, CHS, DHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 9–10
PREREQUISITE: Algebra I

This course is designed to give the students an understanding of the facts about geometrical figures and an appreciation of their presence in nature, architecture, etc. Emphasis is placed on development or reasoning ability, deduction, and proofs. Angles, triangles, areas, volumes, perpendicular lines and planes, parallels, congruency, similarity, construction, loci, arcs, circles, coordinate geometry, and polygons are studied.

IB MATHEMATICAL STANDARD LEVEL & IB MATHEMATICS STANDARD LEVEL
FHS

DURATION: 2 Year Course
a–g DESIGNATION: c
GRADES: 11–12
PREREQUISITE: None

International Baccalaureate Mathematics Standard level and Mathematical Standard Level are separate two-year courses offered at Fresno High. Students develop mathematical knowledge, concepts and principles; develop logical, critical and creative thinking; and employ and refine their powers of abstraction and generalization. To review specific IB course information, visit www.ibo.org; see counselor for information.
PROBABILITY & STATISTICS
BHS, DPHS, EHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 12
PREREQUISITE: Algebra II

The course is designed to address topics in elementary probability, descriptive analysis of single variable data, discrete and continuous probability distributions, sampling techniques, decision making, and bivariate analysis.

TRIGONOMETRY /
TRIGONOMETRY HONORS
BHS, DPHS, DSHS, EHS, FHS, HHS, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: c
GRADES: 11–12
PREREQUISITE: Algebra II

This course is the study of trigonometric, linear, polynomial, exponential, circular composite and absolute functions, sequence and series, limits and other functions centered around finding real zeroes and slopes of tangent lines.

PHYSICAL EDUCATION (PE)

ATHLETIC PHYSICAL EDUCATION
BHS, FHS, HHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: Concurrent participation on an athletic team

Students enrolled in this class meet the PE State Standards and District goals for physical education. Students focus on: movement skills and movement knowledge; self-image, self-esteem, and self-realization; and social development and social interaction. Students may be registered in this course only if participating on an athletic team.

PE BALLET: BEGINNING & INTERMEDIATE
RHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: None

Ballet focuses on the base for all forms of future movement—from dance to gymnastics. Levels of Ballet provide unique challenges for students. Intermediate and Advanced Ballet students study five major areas: artistic perception, creative expression, historical and cultural context, aesthetic valuing, and connections, relations and applications. Courses focus on the significance of dance, choreography, style and form, content, concept, context, and technical dance. Correct placement and performance style are emphasized.

CAREERS IN PHYSICAL EDUCATION,
RECREATION & HEALTH
RHS, SHS

DURATION: Semester Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

This course will examine activities specializing in the pursuit of individual excellence leading toward personal career opportunities in physical education, recreation, and health. Students have an opportunity to improve their health-related physical fitness and develop proficiency in movement skills and examine practices that allow sound decision making to enhance successful participation in movement activities.

CO-CURRICULAR PHYSICAL EDUCATION
BHS, DSHS, EHS, FHS, HHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: Concurrent enrollment in co-curricular activities

Students enrolled in this class meet the PE State Standards and District goals for physical education. Students prepare for the California Physical Performance Test while focusing on: movement skills and movement knowledge; self-image, self-esteem, and self-realization; and social development and social interaction. This class must be taken in conjunction with marching band, colorguard, cheerleading or the equivalent.

CROSS-AGE PHYSICAL EDUCATION
BHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 10–12
PREREQUISITE: None

This course offers the high school student an opportunity to study motor and fitness development by teaching physical education to elementary students. The high school student will design lesson plans and teach to a designated elementary class. High school students will be required to wear gym clothes as specified by the teaching staff and the district and to participate in all physical activities with elementary students.

PE CULTURAL DANCE
RHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: None

Cultural Dance includes beginning, intermediate, and advanced Hip-Hop technique. The class will include and team modern hip-hop choreography, such as musicality, control, rhythm, isolation, coordination, and balance. The tools, basics, and technical understanding in this style of popular modern dance are emphasized throughout the course.
**PE DANCE EXPLORATION**

**RHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 9–12
- **PREREQUISITE:** None

Dance Exploration teaches the significance of dance, choreography, style and form, content, context and technical dance and consists of four major areas of content: artistic perception, creative expression, historical and cultural context, and aesthetic valuing. This class allows students to explore ballet, modern dance, and/or jazz dance techniques. Self-discipline, control, rhythmical accuracy, flexibility and correct alignment are emphasized.

**PE FOLKORIC DANCE: BEGINNING, INTERMEDIATE & ADVANCED**

**MHS, RHS, SHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 9–12
- **PREREQUISITE:** None

Folkloric Dance is a study of the Mexican culture through dance. Beginning Folklorica is for the first year dance student who has basic experience in dance or shows an interest in learning folkloric dance. The course includes the study of the music, history, dress, and choreography of four regions of Mexico; Advanced Folkloric learns choreography from ten regions. Levels of Folkloric Dance provide specific challenges and techniques throughout the year. Intermediate and Advanced students learn sophisticated techniques along with perfecting dance steps common to all dance.

**PE INDIVIDUAL EXCELLENCE**

**BHS, HHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 11–12
- **PREREQUISITE:** None

This course offers advanced instruction of prior subjects allowing students to become more proficient in one or more of the following activities: badminton, Frisbee, golf, jogging, racquetball, pickle ball, recreational sports, swimming and tennis.

**PE INTEGRATED RECREATIONAL SPORTS**

**BHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 9–12
- **PREREQUISITE:** None

Students enrolled in this class will meet the State Framework and District goals for physical education using a modified curriculum (as needed) for both the able-bodied students and the physically and developmentally challenged. Students will participate in physical fitness and recreational activities designed to reach their maximum potential.

**JAZZ: BEGINNING, INTERMEDIATE & ADVANCED**

**FHS, HHS, RHS, SHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** f
- **GRADES:** 9–12
- **PREREQUISITE:** None

Jazz techniques classes provide a basic understanding of contemporary jazz movements including a variety of dance skills, both technical and rhythmical. Beginning Jazz teaches the significance of dance, choreography, style and form, content, concept, context and technical dance. Intermediate and Advanced level students focus on special techniques, projects and performances. Students study four major areas: artistic perception, creative expression, historical and cultural context, and aesthetic valuing.

**PHYSICAL EDUCATION I**

**BHS, CHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, RHS, SHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 9
- **PREREQUISITE:** None

The curriculum is aligned with the California State Standards and provides students an opportunity for an in-depth study in one or more of the following areas: individual and dual activities, rhythms and dance. This course provides students the opportunity to improve their health-related physical fitness and meet the health standards on the state physical fitness assessment test. Students will develop proficiency in their movement skills, expand their capabilities for independent learning, and examine practices that allow sound decision making to enhance successful participation in movement activities. Appropriate social skills and personal responsibility skills will be taught and practiced by working independently and with others.

**PHYSICAL EDUCATION II**

**BHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS**

- **DURATION:** Year Course
- **a–g DESIGNATION:** None
- **GRADES:** 10
- **PREREQUISITE:** None

The curriculum is aligned with the California State Standards and framework and provides an opportunity for an in-depth study in team activities, gymnastics, and tumbling. Students in this class will continue to learn about physical fitness and achieve levels of excellence beyond the performance standards. Students will learn how to assess their current levels of health-related fitness, set personal goals and design their own fitness programs. There is strong emphasis for students to encourage others to be supportive and inclusive of individuals at all ability levels.
PHYSICAL EDUCATION FOR PUBLIC SERVICE

HHS
DURATION: Semester Course
a–g DESIGNATION: None
GRADES: 10
PREREQUISITE: None

This course is designed for students interested in careers in public safety careers including law enforcement, fire and paramedic service and Emergency Medical Technician (EMT). It is a boot camp format with emphasis on aerobic and strength training, Confidence Course competency, flexibility, and training principles. Physical assessment will take place at the beginning and conclusion of the course.

SPORTS FOR LIVING

BHS
DURATION: Semester Course
a–g DESIGNATION: None
GRADES: 11-12
PREREQUISITE: None

Lifetime sports and activities are the focus of this semester course and include the following: badminton, Frisbee, golf, jogging, pickle ball, racquetball, recreational sports, swimming, and tennis. Students have the opportunity to go to GB3 for workouts related to the curriculum.

TAP: BEGINNING, INTERMEDIATE & ADVANCED

RHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9-12
PREREQUISITE: None

Tap Dance teaches the significance of dance, choreography, style and form, content, concept, contest and technical dance. Students study four major areas: artistic perception, creative expression, historical and cultural context, and aesthetic valuing. Intermediate and Advanced students demonstrate increased technical ability through the use of traditional and contemporary exercises, steps and combinations of tap.

THEATRE MOVEMENT: BEGINNING & ADVANCED

RHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9-12
PREREQUISITE: None

Theatre Movement students learn that an actor’s training must center around the fact that everything the actor does is seen and interpreted by the audience. Physical movement is central to the actor’s expression: in silence or voice, in motion or in stillness. This course will teach stage movement for actors as a skill needed to help create and understand characters for stage.
AP ENVIRONMENTAL SCIENCE
BHS, DPHS, EHS, HHS, RHS, SHS

DURATION: Year Course
A-G DESIGNATION: d
GRADES: 11-12
PREREQUISITE: Biology, concurrent enrollment in Chemistry

This course is designed to be the equivalent of a one-semester, introductory college course in environmental science. Unlike most other introductory-level college science courses, Environmental Science is offered from a wide variety of departments, including geology, biology, environmental studies, environmental science, chemistry, and geography. Topics will include: cell chemistry, earth systems, ecosystems, biomes, energy resources, air, water, atmosphere, and climate. Students will also learn science laboratory safety, use the scientific method, participate in investigations and experiments, and use various tools and instrumentation. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP PHYSICS B
BHS

DURATION: Year Course
A-G DESIGNATION: d
GRADES: 11-12
PREREQUISITE: Two years of laboratory science

This course includes topics in both classical and modern physics. Knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus may be introduced in connection with physical concepts, such as mechanics, thermodynamics, optics, quantum mechanics, electricity and magnetism, and special relativity. This is equivalent to a full-year college-level course for students needing a non-calculus introduction to physics to meet requirements for pre-professional programs in health sciences, athletics, architecture, etc. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP PHYSICS C: MECHANICS
BHS, EHS

DURATION: Year Course
A-G DESIGNATION: d
GRADES: 11-12
PREREQUISITE: Two years of laboratory science

In the typical Physics C course, roughly one-half year is devoted to mechanics. Use of calculus in problem solving and in derivations is expected to increase as the course progresses. In the second half of the C course, the primary emphasis is on classical electricity and magnetism. Calculus is used freely in formulating principles and in solving problems. This is equivalent to a full-year college-level course for students pursuing careers in engineering, mathematics, physics, astronomy, chemistry, geology, electronics, computers, etc. Laboratory work is emphasized. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

AP PHYSICS I
EHS

DURATION: Year Course
A-G DESIGNATION: d
GRADES: 10-12
PREREQUISITE: None

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills.

APPLIED KINESIOLOGY
DPHS, MHS, RHS

DURATION: Year Course
A-G DESIGNATION: d
GRADES: 10
PREREQUISITE: None

Applied Kinesiology students will study the principles, concepts and interactions of human anatomy and physiology specifically related to physical activity. An emphasis on metabolism and respiratory, cardiovascular, neuromuscular, and the skeletal systems will allow students to better understand exercise and its application to health promotion, disease prevention and healthy aging. Students will engage in project-based learning and explore how and why Kinesiology impacts training and coaching techniques.

BIOLOGY & GATE BIOLOGY
BHS, CHS, DHS, DPHS, DSHS, EHS, FHS, HHS, JEY, MHS, PSE, RHS, SHS

DURATION: Year Course
A-G DESIGNATION: d
GRADES: 9–10
PREREQUISITE: None

Biology topics include the nature of science; the chemical basis of life; cell biology; genetics; ecology; evolution; and physiology. Students will also learn science laboratory safety; use the scientific method; participate in investigations and experiments; and use various tools and instrumentation in the biology laboratory.

BIOLOGICAL LINKS TO ENERGY AND THE ENVIRONMENT
HHS

DURATION: Year Course
A-G DESIGNATION: d
GRADES: 9
PREREQUISITE: None

This course is a hands-on, exploration of cellular biology and chemical reactions that occur in an organism’s cells. Specific attention is paid to energy acquisition and use in organisms, ecosystems and the environment. Students compare energy sources for plants and animal cells with renewable and non-renewable energy use by humans. Specific aspects to CTE include an understanding of energy types, calculations, and how energy is derived from natural and man-made sources, as well as understanding the impact of...
environmental laws and regulation that affect the energy industry and its role in maintaining sustainability of our natural world. Throughout the course, students identify and describe careers, certifications and postsecondary education and training requirements to pursue a variety of environmental and energy-related fields.

**Biology and Community Health**

**UCCI**  
**DPHS, SHS**  
**DURATION:** Year Course  
**a–g DESIGNATION:** Pending, in review  
**GRADES:** 9–12  
**PREREQUISITE:** None

This course is designed to provide students with an understanding of biological concepts through the study of the effect of disease on public and community health. Students engage in experiments, conduct research, complete simulations and apply knowledge of cellular physiology to understand the spread of disease, which is the foundation of public and community health. Students use experiments and their knowledge of genetics to explore the reasons for and effects of prevalence of hereditary disorders within a community. The course culminates with students putting their knowledge to work, educating their community about relevant health problems and what can be done to prevent them.

**Biomedical Innovations**

**EHS**  
**DURATION:** Year Course  
**a–g DESIGNATION:** d  
**GRADES:** 12  
**PREREQUISITE:** Medical Interventions

This course is the fourth year in a four-year cumulative curriculum on Biomedical Science. In the final course of the Project Lead The Way (PLTW) Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

**CDE Agricultural Biology**

**SHS**  
**DURATION:** Year Course  
**a–g DESIGNATION:** d  
**GRADES:** 9  
**PREREQUISITE:** None

Ag Biology is the study of plants and animal life, their relationship to one another, and of man in his environment. Biology is addressed at the application level and students experience how agriculture affects all of our lives. This is an applied, hands-on learning class utilizing farm laboratory experiments, research projects, and presentations.

**Chemistry & Honors Chemistry**

**BHS, DPHS, DSHE, DHS, EHS, FHS, HHS, MHS, PSE, RHS, SHS**  
**DURATION:** Year Course  
**a–g DESIGNATION:** d  
**GRADES:** 10–12  
**PREREQUISITE:** Biology and Algebra I

This course includes instruction in: atomic and molecular structure; chemical bonds; conservation of matter and stoichiometry, gases and their properties, solutions, chemical thermodynamics, reaction rates, acids and bases, nuclear processes, chemical equilibrium, and organic chemistry and biochemistry. Students will also learn science laboratory safety, use the scientific method, participate in investigations and experiments, and use various tools and instrumentation.

**Earth Science**

**CHS, DHS, DSHS, JEY, MHS, RHS**  
**DURATION:** Year Course  
**a–g DESIGNATION:** g  
**GRADES:** 9–10  
**PREREQUISITE:** None

This course includes topics in: astronomy, dynamic Earth processes, energy in the Earth system, biogeochemical cycles, structure and composition of the atmosphere, climate, evolution of the Earth, and California geology. Students will also learn science laboratory safety, use the scientific method, participate in investigations and experiments, and use various tools and instrumentation in the Earth Science laboratory.

**Engineering Research and Development PLTW**

**EHS**  
**DURATION:** Year Course  
**a–g DESIGNATION:** Pending, in review  
**GRADES:** 12  
**PREREQUISITE:** Previous engineering classes

Engineering Research and Development (ERD) is the capstone course in the engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process.

**Environmental Science**

**CHS, DSHS, EHS, FHS, JEY, MHS, RHS, SHS**  
**DURATION:** Year Course  
**a–g DESIGNATION:** g  
**GRADES:** 11–12  
**PREREQUISITE:** Biology

This course includes instruction in: cell chemistry, earth systems, ecosystems, energy resources, air, water, atmosphere, and climate. Students will also learn science laboratory safety, use the scientific method, participate in investigations and experiments, and use various tools and instrumentation in the Environmental Science laboratory.
GREEN UP & GO UCCI

EHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 10-12
PREREQUISITE: None

This course is designed for students in the Green Energy Pathway and provides students with the history and development of power production and transmission, basic electrical circuit theory, and energy industry applications. Students have an opportunity to apply concepts to various forms of energy production and build various energy production models.

HUMAN BODY SYSTEMS PLTW

BHS, EHS, RHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 10
PREREQUISITE: Principles of Biomedical Science

Designed for students in the 2nd year of the Biomedical Pathway, students in this course will examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use software to monitor body functions. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

IB BIOLOGY STANDARD LEVEL

FHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 11–12
PREREQUISITE: Biology and Chemistry

IB Biology is studied at the higher level or standard level. Students explore the concepts, theories, models, and techniques that underpin each subject area and through these develop their understanding of the scientific method. A compulsory project encourages students to appreciate the environmental, social and ethical implications of science. This exercise is collaborative and interdisciplinary and provides an opportunity for students to explore scientific solutions to global questions. To review specific IB course information, visit www.ibo.org; see counselor for information.

IB CHEMISTRY STANDARD LEVEL

FHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 11–12
PREREQUISITE: Chemistry or Honors Chemistry

IB Chemistry is studied at the higher level or standard level. Students explore the concepts, theories, models, and techniques that underpin each subject area and through these develop their understanding of the scientific method. A compulsory project encourages students to appreciate the environmental, social and ethical implications of science. This exercise is collaborative and interdisciplinary and provides an opportunity for students to explore scientific solutions to global questions. To review specific IB course information, visit www.ibo.org; see counselor for information.

IB ENVIRONMENTAL SYSTEMS AND SOCIETIES STANDARD LEVEL (SL)

FHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 11–12
PREREQUISITE: Biology, Honors Biology, Chemistry, Honors Chemistry, Physics, Honors Physics

The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students’ attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. The teaching approach therefore needs to be conducive to students evaluating the scientific, ethical and socio-political aspects of issues.

MEDICAL INTERVENTIONS PLTW

BHS, EHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 11
PREREQUISITE: None

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

PHYSIOLOGY

BHS, DPHS, MHS, PSE, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: d
GRADES: 10–11
PREREQUISITE: Biology

Human Physiology is a one-year laboratory-oriented course designed to develop an understanding of how the human organism is put together and how it functions. Physiology is a very valuable course for students planning careers in medicine, dentistry, pharmacy, physical therapy, nursing, and other health-related fields. The class is also important for students interested in science, technology, liberal arts, and physical education.
Physics & Honors/Gate Physics

**BHS, DPHS, EHS, FHS, HHS, MHS, RHS, SHS**

- **DURATION:** Year Course
- **α–γ DESIGNATION:** d
- **GRADES:** 9-11
- **PREREQUISITE:** Algebra I or concurrent enrollment in Algebra I

Physics provides instruction in: the motion and forces, conservation of energy and momentum, heat and thermodynamics, waves, and electric and magnetic phenomena. Students will also learn science laboratory safety, use the scientific method, participate in investigations and experiments, and use various tools and instrumentation.

Principles of Biomedical Science PLTW

**BHS, EHS, RHS**

- **DURATION:** Year Course
- **α–γ DESIGNATION:** d
- **GRADES:** 9-10
- **PREREQUISITE:** None

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, medicine, and research processes. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

ROP Aviation Engineering

*Open to all Fresno Unified juniors and seniors*

**EHS**

- **DURATION:** Year Course
- **α–γ DESIGNATION:** Pending, in review
- **GRADES:** 12
- **PREREQUISITE:** Electronics course

Aviation and Engineering introduces students to aviation careers and elements of design, operation, and regulations. Students will build a kit aircraft under the guidance of an A&P mechanic. Students will apply the principles of flight, aerodynamic design, and the Scientific Method continuously throughout the course. Students will also acquire the skills and knowledge that will better prepare them for careers in aviation, including pilots, engineers, and designers.

Zoology

**BHS, EHS, HHS, MHS, SHS**

- **DURATION:** Year Course
- **α–γ DESIGNATION:** d
- **GRADES:** 10–12
- **PREREQUISITE:** Biology

Zoology is the study of the anatomy, physiology, and classification of all the animal groups. The course content is based on the evolution of body systems from the most primitive to the most complex. Live animals are used for behavioral studies. Comparative anatomy and physiology, which may include a study of human anatomy, are studied through dissections, observations, audiovisual materials, and discussions. More than half of the class time will be devoted to laboratory investigations.

Visual & Performing Arts

Musical Arts / Dance

Advanced Concert Choir II-IV

**BHS, FHS, MHS, RHS, SHS**

- **DURATION:** Year Course
- **α–γ DESIGNATION:** f
- **GRADES:** 9–12
- **PREREQUISITE:** Beginning High School Choral Ensemble and/or instructor permission

The Advanced High School Choral Ensembles are for the highly-motivated and musically-talented students. These ensembles are capable of performing at the highest level of proficiency. Students show continuous evidence of ability to utilize independent vocal study and practice. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

Advanced Guitar

**BHS, HHS, RHS**

- **DURATION:** Year Course
- **α–γ DESIGNATION:** f
- **GRADES:** 9–12
- **PREREQUISITE:** Student must have the ability to play basic chords and read music

Advanced Guitar studies the theory (chord building and song writing) of folk, classical, jazz, and pop styles. The course is designed for students who understand and can demonstrate basic elements of music and who utilize proper guitar performance techniques. Each student will be expected to work/perform at his or her own best effort level and make steady progress. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

Advanced Jazz Band

**BHS, EHS, FHS, HHS, RHS**

- **DURATION:** Year Course
- **α–γ DESIGNATION:** f
- **GRADES:** 9–12
- **PREREQUISITE:** Level III proficiency, audition, and/or permission of instructor

This course is a study of literature, rehearsal, and performance techniques of past and current popular-jazz music (fusion, funk, and Latin) with emphasis on techniques of improvisation and styles. It is open to students of advanced proficiency. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.
ADVANCED MIXED CHOIR II-IV  
RHS  
DURATION: Year Course  
ad–g DESIGNATION: f  
GRADES: 9–12  
PREREQUISITE: Beginning High School Choral Ensemble and/or instructor permission  
The Advanced High School Choral Ensembles are for the highly-motivated and musically-talented students. These ensembles are capable of performing at the highest level of proficiency. Students show continuous evidence of ability to utilize independent vocal study and practice. Students will meet Level IV expectations, moving to Level V of the Fresno Unified Course of Study and appropriate California Music Standards by the end of the school year. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

ADVANCED WOMEN’S CHOIR  
MHS, RHS, SHS  
DURATION: Year Course  
ad–g DESIGNATION: f  
GRADES: 9–12  
PREREQUISITE: Beginning High School Choral Ensemble and/or instructor permission  
The Advanced High School Choral Ensembles are for the highly-motivated and musically-talented students. These ensembles are capable of performing at the highest level of proficiency. Students show continuous evidence of ability to utilize independent vocal study and practice. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

AP MUSIC THEORY  
EHS  
DURATION: Year Course  
ad–g DESIGNATION: f  
GRADES: 10–12  
PREREQUISITE: Students must be able to play a standard instrument, read/sing music, and instructor permission  
Class will concentrate on the elements of chord construction and music composition and applying these features to the creation of original works in a small musical form. Small ensembles will be combined to play student’s own works. Units in conducting and music history are also included. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

BAND AUXILLARY  
EHS, FHS, MHS, RHS  
DURATION: Year Course  
ad–g DESIGNATION: None  
GRADES: 9–12  
PREREQUISITE: Audition or instructor permission  
This course correlates with the school’s Marching Band and its attached units of the band featuring rifle corps, flags, color guard, letter corps, and/or majorettes. Training will be given in varied dance forms. Marching band experiences and performances comprise majority of the fall semester, and is in conjunction with the school’s football schedule. Rehearsals outside of the regular school day are assigned at the discretion of the instructor. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

BEGINNING BAND  
BHS, FHS, HHS, RHS  
DURATION: Year Course  
ad–g DESIGNATION: f  
GRADES: 9–12  
PREREQUISITE: None  
Students will be introduced to the fundamentals of music reading, performance of band instruments, and the basics of music theory. Students should reach a minimum of Level II or beyond of the Fresno Unified Course of Study and appropriate California Music Standards by the end of the school year. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

BEGINNING CONCERT CHOIR  
BHS, FHS, MHS, RHS  
DURATION: Year Course  
ad–g DESIGNATION: f  
GRADES: 9–12  
PREREQUISITE: Middle school choir experience and/or permission of instructor  
High School Beginning Choral Ensembles present a study of choral literature leading to the development of musicianship and proficiency choral in ensemble performance. Emphasis will be placed upon vocal techniques and sight singing through concentrated rehearsals. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

BEGINNING GUITAR  
BHS, HHS, RHS  
DURATION: Year Course  
ad–g DESIGNATION: f  
GRADES: 9–12  
PREREQUISITE: None  
Beginning Guitar is designed to provide instruction in beginning guitar technique which includes basic music theory (music reading, chords, etc.), finger picking, playing in groups, and care of the guitar.

BEGINNING JAZZ BAND  
HHS, RHS  
DURATION: Year Course  
ad–g DESIGNATION: f  
GRADES: 9–12  
PREREQUISITE: Audition and/or permission of instructor  
This course is a study of the literature and performance techniques or past and present pop/jazz music with emphasis on correct style and feel. Improvisation will be introduced at this level. The course is recommended for instrumentalists with little or no jazz experience.
BEGINNING ORCHESTRA
RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–10
PREREQUISITE: None

This course introduces students to the fundamentals of music reading, performance of orchestral instruments, and the basics of music theory. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

BEGINNING WOMEN’S CHOIR, BEGINNING MEN’S CHOIR, & BEGINNING MIXED CHOIR
HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: Middle school choir experience; instructor permission

High School Beginning Choral Ensembles present a study of choral literature leading to the development of musicianship and choral proficiency in ensemble performance. Emphasis will be placed upon vocal techniques and sight singing through concentrated rehearsals. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

BRASS ENSEMBLE
BHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: None

This class concentrates on the techniques of brass instruments as they relate to the Wind Ensemble, Symphonic Band, Concert Band and/or Orchestra. Problems of rhythms, key signatures, proper breathing, correct embouchure, and all other aspects of brass musicianship are addressed. The class performs as a separate ensemble or as a section within other performing groups. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

CHAMBER CHOIR II-IV
FHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: Beginning High School Choral Ensemble and/or instructor permission

The Advanced High School Choral Ensembles are for the highly motivated and musically talented students. These ensembles are capable of performing at the highest level of proficiency. Students show continuous evidence of ability to utilize independent vocal study and practice. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

CONCERT BAND
BHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: Level II proficiency

Concert Band is open to any student demonstrating Level II proficiency or higher. Students in this course will further develop their skills in reading music, performance and music theory. This class is designed to provide instruction for accomplishing Level IV of this Fresno Unified course of study and appropriate California Music Standards. Regular practices, public performances and competitions after school, at night and/or on weekends may comprise activities of this group and are scheduled according to the progress and abilities of the group as determined by the instructor. Marching band experiences and performances may comprise a portion of the activities of this group.

HISTORY OF ROCK AND ROLL
HHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: None

This course focuses on the roots and development of rock and roll music throughout the twentieth century. Students will develop an understanding of basic music theory as it pertains to rock and roll and special attention will be given to the manner in which sociological, political, and economic conditions affected the evolution of this music.

IB MUSIC STANDARD LEVEL/ HIGHER LEVEL
FHS

DURATION: 2 Year Course
a–g DESIGNATION: f
GRADES: 11–12
PREREQUISITE: None

IB Music is studied at Higher Level or Standard Level and is adaptable to different cultural contexts. The course is an intense study of musical theory and technique. Students analyze the work of famous composers while learning how to compose themselves. Students in this course complete the IB assessments for music, including a written exam and composing a piece of music in the style of a prescribed composer. To review specific IB course information, visit www.ibo.org; see counselor for information.
INTERMEDIATE ORCHESTRA
RHS, SHS
DURATION: Year Course
a–g DESIGNATION: f
GRADES: 10–12
PREREQUISITE: Level II proficiency with the approval of the instructor; minimum of one year performance required

A mixed ensemble class of beginning and intermediate string players in which proper orchestral technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught throughout the year. This class is open to all students interested in playing and performing an orchestral string instrument who are committed to hard work and performance opportunities. This performance-based class will include concert literature and solo and ensemble music. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

LATIN/JAZZ ENSEMBLE
RHS
DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: Audition and/or teacher recommendation

Latin Jazz Ensemble is an advanced instrumental performance group that explores the repertoire of Afro-Caribbean music including mambo, cha cha, Mozambique, bolero, guaguanco, Latin jazz, etc. In addition to the techniques of rehearsal and performance, the students learn the theory and history of the music studied and performed. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

MARCHING BAND
BHS, EHS, FHS, HHS, MHS, RHS, SHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: Level II proficiency

Marching Band is open to any student demonstrating Level II proficiency or higher of this Fresno Unified course of study and appropriate California Music Standards. Students in this course will develop their skills in reading music, performance of band instruments and basic music theory. Regular practices, public performances and competitions after school, at night and/or on weekends may comprise activities of this group and are scheduled according to the progress and abilities of the group as determined by the instructor. Students enrolled in this course will meet the PE State Standards and District requirements for physical education. Students will fulfill the required minutes of physical education (400 minutes every 10 days) through both class participation and the completion of an Activity Log which demonstrates physical activities completed outside of the class period.

Percussion Ensemble
BHS, FHS, MHS, RHS, SHS
DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: Audition and concurrent enrollment in Marching Band

The Percussion Ensemble class is where percussionists from all performing groups (i.e., Latin Jazz Ensemble, Jazz Band, Steel Drum Band, Concert Band and Marching Band) develop their skills. Basic through advanced techniques of performing on various percussion instruments will be taught along with reading music, ear training, and rhythmic dictation. Other skills that will be emphasized include teamwork, setting up efficiently, and composing short rhythmic phrases.

PIPPERS AND DANCERS/HIGHLANDERS
MHS
DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: Audition or permission of instructor

Performance of traditional Scottish bagpipe music, Highland dancing, and Scottish drumming. Performing for school and community events is a course requirement.

PIANO I
BHS, EHS, FHS, HHS, MHS, RHS, SHS
DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–10
PREREQUISITE: Instructor permission

This course is designed to teach students basic music skills and beginning piano technique and style. Students will learn the fundamentals of music theory and ear training skills. Music history and appreciation are included throughout the course. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.
### PIANO II

**BHS, EHS, RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>10–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Piano I and/or instructor permission</td>
</tr>
</tbody>
</table>

Students will learn piano technique suitable to their ability level. They will study piano literature from all musical periods and develop a more complete understanding of the fundamentals of music theory. Ear training and sight reading will also be part of the course. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

### STRING ENSEMBLE/ORCHESTRA

**HHS, RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>One year of instrumental music; instructor permission</td>
</tr>
</tbody>
</table>

String Ensemble is open to string players enrolled in Symphonic Orchestra. Students study symphonic orchestra music and work on ensemble and chamber music throughout the year. The course is open to violin, viola, cello, and string bass students. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

### SYMPHONIC ORCHESTRA

**BHS, EHS, FHS, HHS, MHS, RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Enrollment is by audition and director(s) recommendation</td>
</tr>
</tbody>
</table>

A highly select group of string players performing the finest in orchestral literature, in which proper orchestral technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught and maintained within the group. This performance-based class will include A/AA concert literature and solo and ensemble music. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

### WIND ENSEMBLE

**BHS, RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>10–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Level IV proficiency, audition, and/or recommendation of the instructor</td>
</tr>
</tbody>
</table>

This course is designed for the sequential study of the literature, rehearsal, and performance techniques of the band on the highest level achievable. It is a performance organization of students of high achievement and talent. Marching band experiences and concert performances will comprise a portion of the activities of this group. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

### THEATRICAL ARTS

### ACTING BASICS

**RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>10–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Introduction to Theatre or instructor permission</td>
</tr>
</tbody>
</table>

A course geared to the intermediate actor, centering around theatre games, exercises, audition techniques, improvisation, monologue, scene, and one-act work.

### ACTING STYLES

**RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>10–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Acting Basics or instructor recommendation</td>
</tr>
</tbody>
</table>

A continuation of Acting Basics together with advanced interpretation, criticism, and acting based on a historical framework. Students learn and apply acting techniques from all the major periods of theatre.

### COSTUME DESIGN & THEATRICAL MAKEUP

**RHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>10–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Introduction to Theatre with a C grade or better or instructor permission</td>
</tr>
</tbody>
</table>

This course includes an in-depth study of costume design and construction. Costuming is taught through an analysis of styles throughout theatre history. Students study makeup materials, light and shade, modeling with paint, optical illusions, character analysis for makeup, three-dimensional techniques, aesthetic valuing, non-realistic makeup, and specialized techniques.

### IB THEATRE STANDARD LEVEL & HIGHER LEVEL

**FHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>2 Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

Students in International Baccalaureate Theatre at both the Standard and Higher Level analyze a thematic selection of plays for their structure, cultural and historical significance and performance possibilities. Students complete their IB assessments in theatre, which includes a portfolio project, a research project, and a performance component. To review specific IB course information, visit [www.ibo.org](http://www.ibo.org); see counselor for information.
IMPROVISATION

HHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 10–12
PREREQUISITE: Theatre I, Introduction to Theatre, instructor permission or audition

This class, while challenging, is just plain fun. Enrollment in the course is by audition only and getting into the class is one of the most coveted experiences. This is one of the hardest working acting classes as the students are constantly performing improv and/or taking a touring show out on the road. Students not only explore advanced acting techniques, they also learn the discipline of thinking on their feet and the marvel of ensemble trust and cooperation.

PERFORMING ARTS SINGERS

MHS, RHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: Beginning High School Choral Ensemble and/ or permission of instructor

The Advanced High School Choral Ensembles are for the highly motivated and musically talented students. These ensembles are capable of performing at the highest level of proficiency. Students show continuous evidence of ability to utilize independent vocal study and practice. Students will meet Level IV expectations, moving to Level V of the Fresno Unified Course of Study and appropriate California Music Standards by the end of the school year. Public performances are scheduled according to the progress and abilities of the group as determined by the instructor.

SHOWCASE DIRECTING

RHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 10–12
PREREQUISITE: Acting Basics

A continuation of Acting Styles together with advanced interpretation, criticism, and the technical aspects of complete play production. This class is responsible for choosing a play, editing, casting, rehearsing (both as actors and directors), lighting, costuming, makeup, and scenery construction of this play, as well as touring it. The class is also responsible for publicity. Each student is responsible for directing a one-act play.

STAGECRAFT I & II

RHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: Interest in design and theatre; instructor approval

Imagine an entire play production. Now, take away the actors on stage — that’s Stagecraft. This course involves the use of basic drama theory to create, perceive, and execute design elements for dramatic and theatrical performances and covers basic technical theatre elements. Stagecraft II focuses on the study and execution of the principles of set design and construction. Students receive a continued experience in design, construction, lighting, sound, and painting of scenery for school productions.

THEATRE I

BHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: None

Theatre I is designed to present types of drama, interpretation, and acting techniques, as well as studies in reading, acting, and the production of scenes and one-act plays. The basic aspects of lighting, costuming, and makeup will be stressed.

THEATRE II/III/IV

BHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 9–12
PREREQUISITE: Theatre I

A continuation of theatre studies focused on physical and vocal performance technique, play interpretation and production, and the study of world drama through examining theatre history and the elements of Western and non-Western drama in relation to culture and society.

VISUAL ARTS

AP ART HISTORY

EHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 10–12
PREREQUISITE: None

The AP Art History course is equivalent to a two-semester introductory college course that explores topics such as the nature of art, art making, and responses to art. By investigating a specific image set of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters in-depth, holistic understanding of the history of art from a global perspective. Students become active participants in the global art world, engaging with its forms and content, as they experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art.

AP STUDIO ART: DRAWING

EHS

DURATION: Year Course
a–g DESIGNATION: f
GRADES: 10–12
PREREQUISITE: Instructor approval

This course is designed for advanced art students who continue to study numerous techniques in the media of choice, art history topics in depth, and prepare portfolio presentations. The course also enables a sustained investigation and development of three sections of the AP Portfolio: the development of an artistic breadth...
of experience, the student’s focus and development of a visual idea defined as a concentration, and the continual process of creating works of great quality & craftsmanship. To review specific AP course credit, visit www.collegeboard.org; see counselor for information.

**ART I**

**BHS, CHS, EHS, FHS, HHS, JEY, MHS, RHS, SHS**

**DURATION:** Year Course  
**A–G DESIGNATION:** f  
**GRADES:** 9–12  
**PREREQUISITE:** None

Students learn the basics of art, develop drawing skills, learn to work with many kinds of art materials, learn how to mix and use color, gain a working vocabulary of art terms, and use the elements and principles of design to create original artworks. Art history is introduced. Students work in drawing, painting, collage, and printmaking. Art I is the prerequisite for all advanced two-dimensional courses.

**ART II**

**BHS, EHS, FHS, HHS, MHS, SHS**

**DURATION:** Year Course  
**A–G DESIGNATION:** f  
**GRADES:** 9–10  
**PREREQUISITE:** Art I

This course is designed for students who wish to explore a variety of media such as printmaking, fibers and fabrics, clay, pastels, and paints, while emphasizing drawing skills.

**CERAMICS I**

**BHS, FHS, RHS, SHS**

**DURATION:** Year Course  
**A–G DESIGNATION:** f  
**GRADES:** 9–10  
**PREREQUISITE:** None

This course focuses on basic techniques for making creative ceramic pieces. Students learn basic formation techniques: pinch, coiling, slab and wheel throwing, decoration, glazing, and firing procedures. Slip pouring into molds is not part of the ceramics course. Instruction in wheel throwing and more complex techniques is given individually. Students study historic works and make original pieces based on research.

**CERAMICS II**

**BHS, RHS, SHS**

**DURATION:** Year Course  
**A–G DESIGNATION:** f  
**GRADES:** 10–12  
**PREREQUISITE:** Ceramics I

This course is designed for the study of advanced techniques in the formation and glazing of hand-built and wheel-thrown projects. Students analyze aesthetic qualities of their own and other’s work in written and oral form. Students research historical and cultural influences and apply attributes to their own work.

**DRAWING II**

**MHS, RHS, SHS**

**DURATION:** Year Course  
**A–G DESIGNATION:** f  
**GRADES:** 10–12  
**PREREQUISITE:** Art I, or test, portfolio review, and instructor approval

This course is designed for students to further develop their drawing skills. Students learn to closely observe and draw natural and man-made forms and how to use perspective. They use drawing techniques and various media to create personal compositions. Instruction may be individualized. Students research art history related to their drawing processes and to refine their skills in artistic perception and aesthetic valuing.

**GRAPHIC DESIGN II**

**RHS**

**DURATION:** Year Course  
**A–G DESIGNATION:** Pending, in review  
**GRADES:** 10–12  
**PREREQUISITE:** Art I

In this course, students learn basic advertising skills of layout and lettering and create original cartoons, logos, stationery, and print designs such as book covers. Students learn basic printing processes such as silk screen. Students learn how to create original posters and designs. The course includes a historical and contemporary overview of advertising and commercial art.

**IB FILM HIGHER LEVEL**

**FHS**

**DURATION:** 2 Year Course  
**A–G DESIGNATION:** f  
**GRADES:** 11–12  
**PREREQUISITE:** None

IB Film is studied at the higher level or standard level and is adaptable to different cultural contexts. The emphasis is on creativity in the context of disciplined, practical research into the relevant genres. In addition, each topic is designed to foster critical, reflective and informed practice, help students understand the dynamic and changing nature of the arts, explore the diversity of arts across time, place and cultures, and express themselves with confidence and competence. To review specific IB course information, visit www.ibo.org; see counselor for information.

**IB VISUAL ARTS STANDARD LEVEL & HIGHER LEVEL**

**FHS**

**DURATION:** 2 Year Course  
**A–G DESIGNATION:** f  
**GRADES:** 11–12  
**PREREQUISITE:** None

The emphasis is on creativity in the context of disciplined, practical research into the relevant genres. In addition, each subject is designed to foster critical, reflective and informed practice, help students understand the dynamic and changing nature of the arts, explore the diversity of arts across time, place and cultures, and express
themselves with confidence and competence. To review specific IB course information, visit www.ibo.org; see counselor for information.

<table>
<thead>
<tr>
<th>SPECIALTY COURSES</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ACADEMIC DECATHLON</th>
</tr>
</thead>
</table>

**EHS, HHS, MHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

During this course, students will prepare for the academic decathlon competition in each of the areas of competition using the United States Academic Decathlon published curriculum every spring. The California Academic Decathlon promotes an educational experience providing a format in which teams of high school students compete in academic events. Academic Decathletes take 30 minute multiple choice tests in the subjects of Art, Economics, Music, Language and Literature, Mathematics, Science, and Social Science. In addition, each team member gives a planned 4 minute Speech and a 2 minute impromptu Speech, participates in a 7 minute Interview, and has 50 minutes to write an Expository Essay.

<table>
<thead>
<tr>
<th>ADULT LIVING</th>
</tr>
</thead>
</table>

**JEY**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

Adult Living is designed to better prepare students for the transition from high school to adult life. Topics include goal setting, college preparation, career exploration and employability competencies, emotional and physical health, building strong relationships, family wellness, financial literacy and management of personal economics. This course will enable students to make better decisions which will affect their future role as productive and successful citizens in our society.

<table>
<thead>
<tr>
<th>AEROSPACE SCIENCE I-II</th>
</tr>
</thead>
</table>

**DPHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

This program offers multiple components including citizenship education, leadership education, aviation history, science of flight and physical education. Students improve physical fitness and train to work as a team member. Practices, drill meets, sport competitions, community service, parades and other public performances after school, at night and/or on weekends may comprise activities of this group as determined by the instructor. Students enrolled in this course will meet the PE State Standards and District goals for physical education. Students will fulfill the required minutes of physical education (400 minutes every 10 days) through both class participation and the completion of an Activity Log which demonstrates physical activities completed outside of the class period.

<table>
<thead>
<tr>
<th>PAINTING II</th>
</tr>
</thead>
</table>

**MHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Art I or test, portfolio review, and instructor approval</td>
</tr>
</tbody>
</table>

This course is designed for students to explore a variety of painting media and techniques. Students develop color mixing skills and painting techniques for watercolor, tempera, and acrylics. Students apply skills to original compositions that express personal imagery and concerns. Student's research art history and artists related to their area of concentration.

<table>
<thead>
<tr>
<th>PHOTO I</th>
</tr>
</thead>
</table>

**EHS, HHS, RHS, SHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–10</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

This course is designed to teach students the basic skills of black and white photography: use of the camera, printing, presentation skills, and composition. Emphasis is on the development of photographic skills to explore personal ideas and concepts. The historical significance of photography is introduced.

<table>
<thead>
<tr>
<th>PHOTO II</th>
</tr>
</thead>
</table>

**EHS, HHS, SHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Photography I</td>
</tr>
</tbody>
</table>

This course is designed for students to exhibit proficiency in the use of natural and artificial light in photography compositions. Color photography is introduced. Students research and apply historical and cultural attributes in their work. Students create presentations and portfolios of their photographic work.

<table>
<thead>
<tr>
<th>THREE-DIMENSIONAL DESIGN I</th>
</tr>
</thead>
</table>

**FHS, HHS, JEY, MHS, RHS, SHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>f</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–10</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

This course provides an introduction to a wide variety of experiences in creating three-dimensional design. Students apply the elements of art and principles of design in their three-dimensional designs using a variety of materials such as clay, wood, metal, paper-mache, and plaster. Students learn correct and safe use of special tools and equipment. Historical and contemporary three-dimensional arts are introduced. Three-Dimensional Design I is the prerequisite for all advanced three-dimensional courses.
### Aerospace Science III-IV

**DPHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Aerospace I/II; Full-time enrollment at DPHS</td>
</tr>
</tbody>
</table>

This program offers multiple components including leadership, management, space science, survival training, and physical education. Students improve physical fitness and train to work as a team member. Practices, drill meets, sport competitions, community service, parades and other public performances after school, at night and/or on weekends may comprise activities of this group as determined by the instructor. Students are eligible to apply for ROTC college scholarships, a chance to attend a service academy and may earn advanced rank upon entry into the armed forces.

### AVID

**SHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Application at Sunnyside required</td>
</tr>
</tbody>
</table>

AVID (Advancement Via Individual Determination) is a program which supports high levels of student achievement through a rigorous college prep curricular path. Students develop skills to prepare them for college and university entrance requirements as well as study skills, tutorial groups, and motivational activities that support collegiality.

### Community Ed/Leaders

**DSHS, JEY, MHS, SHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Teacher recommendation</td>
</tr>
</tbody>
</table>

Students learn the purpose and importance of volunteer work in one's community in Community Education. Students may take this course to provide their time and talents to the community or as a way to explore various potential career fields. Students will study the history of community service and look at modern day examples of companies that 'give back' to the community.

### Driver Education

**BHS, EHS, DPHS, FHS, HHS, MHS, RHS, SHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>10–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

This program is a Department of Motor Vehicles regulated high school class that allows each student to receive a certificate of completion upon successful completion and demonstration of competency in the subject matter.

### Forensics I-IV

**BHS, EHS, MHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>g</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

Forensics is a course in competitive speech which provides the student with the opportunity to manifest oral skills through preparation for, and participation in interscholastic speech. A variety of speech events provide exposure to acting with humorous or dramatic interpretations: research skills with original events and critical analysis with writing in preparation for events. The course also encourages a creative outlet for young writers with a prose/poetry emphasis.

### JROTC I-II

**FHS, MHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>9-12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

JROTC promotes citizenship, develops leadership and critical and creative thinking, and provides a global awareness to include a historical perspective of military service. Students improve physical fitness and train to work as a team member. Students enrolled in this course will meet the PE State Standards and District goals for physical education. Students will fulfill the required minutes of physical education (400 minutes every 10 days) through both class participation and the completion of an Activity Log which demonstrates physical activities completed outside of the class period.

### JROTC III-IV

**FHS, MHS**

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11-12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>JROTC I-II</td>
</tr>
</tbody>
</table>

JROTC promotes citizenship, develops leadership and critical and creative thinking, and provides a global awareness to include a historical perspective of military service. Students improve physical fitness and train to work as a team member. Students are inspired to graduate from high school, attend institutions of higher learning, and pursue meaningful careers, particularly in the areas of science, technology, engineering and mathematics. Students are eligible to apply for ROTC college scholarships, a chance to attend a service academy and may earn advanced rank upon entry into the armed forces.
LIBRARY INSTRUCTION
BHS, DPHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 10–12
PREREQUISITE: None

Students work in the library media center under the direction of the library media teacher. Students will learn general library organization and the use of the Dewey Decimal Classification System; assist students and teachers; process textbooks and library books; use a card catalog, various reference books, periodicals, electronic media, and library automation systems when available.

PACE PARENTING
RHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 10–12
PREREQUISITE: None

The PACE Parenting class teaches life skills that are essential for teen parents. The course promotes goal setting, decision-making, and career options; the development of positive self-esteem, healthy relationships and sexuality, and communication skills; the understanding of health, safety, and nutritional needs of young children; the development of positive, nurturing parenting while teaching basic growth and development; and the examination of family challenges and crisis situations.

PACE LAB*
RHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 10–12
PREREQUISITE: None

The PACE Lab course is required for teen parents enrolled in the Parent and Child Education (PACE) program. Through this course, parents will work closely with the PACE staff to implement developmentally-appropriate activities and routines for infants and toddlers. Students will gain an understanding of child development/parenting skills that can be practiced at home or used for future employment in a child care career. Option to earn college credit in high school; see instructor for information.

PEER HELPERS
DSHS, EHS, FHS, HHS, MHS, RHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: Teacher recommendation

Peer Helpers teach basic collaborative skills that enhance positive attitudes toward self and others and provide techniques that can be used to support other students in the learning process. Students learn to build their interpersonal communication skills and become connected to various school programs that are in need of assistance.

PERSONAL AND PROFESSIONAL SKILLS
FHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: None

Personal and professional skills is designed for students to develop attitudes, skills and strategies to be applied to personal and professional situations and contexts now and in the future. In this course the emphasis is on skills development for the workplace, as these are transferable and can be applied in a range of situations. Other qualities the course includes: responsibility, perseverance, resilience, self-esteem, and honesty.

PRINCIPLES OF LEADERSHIP
BHS, CHS, DPHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: Campus Culture Director permission required

Students will be introduced to principles of leadership taught in a collaborative group setting. Students will be engaged in planning school wide engagement activities for the purpose of promoting a positive campus culture and climate. Student will learn about the critical importance of communication, personal and social responsibilities, student government, service learning and business aspects of student body organizations.

TUTORIAL
CHS, DHS, JY

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 11–12
PREREQUISITE: Teacher recommendation

This course is offered to students who need tutorial help with their mainstream classes, proficiencies or additional diagnostic assessments. This class may operate on a pull-out basis or as a scheduled class.

WOMEN’S ALLIANCE, MEN’S ALLIANCE
BHS, CHS, EHS, FHS, HHS, MHS, RHS, SHS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: None

The focus of the class is leadership development and conflict resolution. The focus of the class is to build personal responsibility and leadership skills through role plays, group activities, speeches, and projects.

WORK EXPERIENCE EDUCATION
ALL HIGH SCHOOLS

DURATION: Year Course
a–g DESIGNATION: None
GRADES: 9–12
PREREQUISITE: None
Work Experience Education combines paid employment with classroom instruction. A requirement for this course is employment at an approved employer. Students attend their job placement during the week as well as a scheduled class session once a week. Topics for the course include how to get a job, keep a job, and leave a job. Other topics are economic awareness and career awareness. As part of the course, students will develop a portfolio which shows the abilities, knowledge, and skills achieved. Students are required to have a valid work permit throughout their participation in the WEE course.

YEARBOOK I & II
BHS, CHS, EHS, FHS, HHS, MHS, RHS, SHS

<table>
<thead>
<tr>
<th>DURATION:</th>
<th>Year Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a–g DESIGNATION:</td>
<td>None</td>
</tr>
<tr>
<td>GRADES:</td>
<td>11–12</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
</tbody>
</table>

Yearbook is designed to provide students with the skills necessary for the production and marketing of the school yearbook. Students develop skills in layout design, copywriting, editing, proofreading, advertising, marketing, sales, and business management.

CENTER FOR ADVANCED RESEARCH & TECHNOLOGY (CART)

Half-Day Programs for Juniors and Seniors

Students at any Fresno Unified High School are eligible to attend CART. Apply through your counselor to reserve your spot for the 2016–17 school year. More information is available at www.cart.org Please contact your counselor for an application or visit www.cart.org for more information.

BIOMEDICINE

Students explore issues in medical science and human anatomy/physiology through their involvement in dissections, medical case studies, and research projects. Students investigate how a healthy body functions and how it reacts to disease. Students will collaborate with medical professionals at various hospitals and clinics in the Fresno/Clovis area as they research a variety of medical topics. Recommended prerequisites: “C” or better in Biology, Algebra 1 and English. Prior or concurrent enrollment in Chemistry.

Program includes:
- English 11 (P) or 12 (P)
- Anatomy/Physiology (P)
- Advanced Topics in Medicine (P)
- CART Technology Applications I or II

BIOTECHNOLOGY

Students explore biotechnology, an exploding science field that leads to high-paying jobs in medicine, biology, chemistry, agriculture, and environmental science. Students will apply DNA technology to genetically engineer bacteria, solve medical mysteries, clone tissues, diagnose genetic disease, and explore drug development and testing. Students will wrestle with difficult ethical issues that arise as a result of using biotechnology to solve problems. Recommended prerequisites: “C” or better in English, Algebra 1 and Biology.

Program includes:
- English 11 (P) or 12 (P)
- Chemistry (P) or Adv Science Topics
- Bioengineering (P)
- CART Technology Applications I or II

BUSINESS AND FINANCE ROP: AM ONLY

In addition to learning how to manage and invest money, students also investigate what it takes to create and own a business. Students study human behaviors of producing, distributing, and consuming materials, goods, and services in a world of limited resources. They learn how the financial services industry works as they strengthen the analytical, technical and communication skills needed to succeed in any economy.

Program includes:
- English 11 (P) or 12 (P)
- US History (P) or Government and Economics (P)
- Topics of Money and Banking (P, U)
- CART Technology Applications I or II

ENGINEERING & PRODUCT DEVELOPMENT ROP: AM ONLY

Sponsored by Grundfos

Knowledge, imagination and creativity are used to develop solutions to real-world engineering design problems. Working in small teams, students create working prototypes of their design solutions using a variety of tools and materials, including 3D printers and CNC machines. Scientific research methods are introduced to provide design justifications and analysis. Students are introduced to industry-standard software such as SolidWorks and CAMWorks. Recommended prerequisites: “C” or better in Algebra 1 and English.

Program includes:
- English 11 (P) or 12 (P)
- Physics and Technology (P)
- Product Development I (P)
- CART Technology Applications I or II

ENVIRONMENTAL SCIENCE AND FIELD RESEARCH ROP

Sponsored by Grundfos

Students take part in several field trips in order to experience the San Joaquin Valley, San Joaquin River, Pacific Coast, and the Sierra Nevada Mountains. Students will carry out hands on projects relating to careers in marine biology, wildlife rehabilitation, air quality, river ecology, alternative energy, and forests. Students will have the opportunity to work with environmental professionals and government agencies to complete scientific projects. Some examples are growing native plants, restoring native wildlife habitat, rehabilitating injured and orphaned wildlife species, monitoring forests, experimenting in wetlands and conducting studies of tide pools and beaches.

Program includes:
• English 11 (P) or 12 (P)
• Chemistry (P) or Zoology (P)
• Environmental Research and Technology (P)
• CART Technology Applications I or II

FORENSIC RESEARCH & BIOTECHNOLOGY
Students use hands-on investigative science techniques to solve intriguing problems involving the law. Scientific evidence, DNA, fingerprinting, physical evidence, crime scene reconstruction, and biotechnology are used to create a picture of what happened in the past. Recommended prerequisites: “C” or better in Biology, Algebra I and English.

Program includes:
• English 11 (P) or 12 (P)
• Chemistry (P) or Physics (P)
• Forensic Research and Biotechnology (P)
• CART Technology Applications I or II

HOSPITALITY AND EVENT MANAGEMENT ROP: PM ONLY
Students will learn the skills needed to succeed in the world of event management and customer service. Through hands-on projects, students gain the knowledge needed to begin careers in restaurants management, special event planning, and recreation tourism.

Program includes:
• English 11 (P) or 12 (P)
• US History (P) or Government and Economics (P)
• Global Economics and Finance (P, U)
• CART Technology Applications I or II

INTERACTIVE GAME DESIGN ROP
Sponsored by DeVry University

Game design requires skill in a number of areas including graphic design, programming, audio, animation and modeling. All students have the opportunity to learn about each of these areas while working in teams to create original games and characters rendered in both two and three dimensions. Students are introduced to industry standard software such as 3D Studio Max, XNA Game Studio, Unreal, Flash and Photoshop. Recommended prerequisite(s): English 11 (P) or 12 (P), Computer Technology Applications I or II.

Program includes:
• English 11 (P) or 12 (P)
• Digital Video Production and Broadcasting (P) (2 Periods)
• Digital Media and Graphic Design (P) (2 Periods)
• CART Technology Applications I or II

LAW & ORDER & PUBLIC POLICY
Students study the major aspects of constitutional, criminal, and civil law. Projects teach students about their individual rights and criminal procedure, how laws are made and how to make a legal argument. Students learn how to research and discuss current and historical controversial issues relating to the law. All students have the opportunity to participate in mock trials and field trips to local and federal courthouses and law firms.

Program includes:
• English 11 (P) or 12 (P)
• Government and Economics (P)
• Law and Order and Public Policy (P)
• CART Technology Applications I or II

MARKETING & ADVERTISING ROP
Students explore how companies, such as Apple, Starbucks, Roxy, Nike and Dole develop their branding through product development, pricing strategies, promotional campaigns and global product placement. Students enjoy hands-on learning as they develop their own product brands and promotional campaigns, including online advertising and social media, television, radio, mobile and print advertising. Students learn industry-standard technology for conducting market research and creating advertising products. Students experience real-world learning through internships with non-profit organizations, such as Bike Fresno, media companies and advertising agencies.

Program includes:
• English 11 (P) or 12 (P)
• Government and Economics (P) or Marketing (P)
• US History (P)
• Modern American Economy (P)
• CART Technology Applications I or II

MULTIMEDIA — DIGITAL MEDIA AND GRAPHIC DESIGN ROP
Students develop skills in communication and message design including color, typography and design principles. They will investigate graphic and web techniques in cooperative teams similar to corporate settings. Design students will work on all stages of production using industry-standard software (i.e. Adobe CC) to create original products such as logos, posters, newspapers, advertisements, websites and two-dimensional animation.

Program includes:
• English 11 (P) or 12 (P)
• Digital Media and Graphic Design (P) (2 Periods)
• CART Technology Applications I or II

MULTIMEDIA — DIGITAL VIDEO PRODUCTION AND BROADCAST ROP
Students develop skills in television and film production. Using industry-standard software packages (i.e. Adobe CC), students will engage in hands-on, integrated curriculum. They work on all stages of production while creating products such as short films, advertisements, journalism broadcasts, and documentaries. All multimedia students develop skills in the content and presentation of message design, the sociological impacts of media, and the stages of the production cycle.

Program includes:
• English 11 (P) or 12 (P)
• Digital Video Production and Broadcasting (P) (2 Periods)
• CART Technology Applications I or II

NETWORK MANAGEMENT AND COMPUTER MAINTENANCE ROP
Students gain solid foundational skills to be successful in the fast-paced world of Information Technology. Focus is placed on hardware (motherboards, memory, hard drives, etc.), OS (Windows
7 & 8, Server 2012) and networking (topology, router and LAN switching theory). Students are exposed to current trends (Web 2.0 technologies) and IT business contacts. Students may take the industry recognized Cisco Certified Network Associate (CCNA) exam.

Program includes:
- English 11 (P) or 12 (P)
- Advanced Network Management and Certification (2 Periods)
- CART Technology Applications I or II

**PSYCHOLOGY & HUMAN BEHAVIOR**

Students investigate the inner workings of the human mind on both physiological and chemical levels. Students explore the workings of their own minds while learning why people behave the way they do. Students consider what influences behavior, and how behavior is controlled, changed, and modified.

Program includes:
- English 11 (P) or 12 (P)
- Neuroscience (P)
- Psychology and Human Behavior (P)
- CART Technology Applications I or II

**ROBOTICS AND ELECTRONICS ROP: PM ONLY**

*Sponsored by Grundfos*

Students explore the fascinating and fun world of robotics, covering simple toys to the complex logic and articulation of environmental sensing, recording and actuating devices and automated design. They will learn to design, build and program a device that responds to external information. Scientific research methods are introduced to provide design justification and analysis. Students will learn to understand electronics and computer systems and basic computer programming. Students are introduced to industry-standard software such as SolidWorks and CAMWorks. Recommended prerequisites: "C" or better in algebra 1 and English.

Program includes:
- English 11 (P) or 12 (P)
- Physics and Technology (P)
- Robotics/Electronics (P)
- CART Technology Applications I or II

**WEB APPLICATION DEVELOPMENT ROP**

YouTube, Facebook, MySpace, Amazon, Google—these are some of the 21st century spaces we have created to connect friends, community, business, and information around the world. Go beyond being a user of technology and learn how to design, develop, and deploy rich internet applications using Web 2.0 developer tools such as Java, SQL, HTML, JavaScript, CSS, and more. Learn the foundational skills of object oriented programming, scripting, web & database design, and the design principles of building a graphical user interface that end users will enjoy.

Program includes:
- English 11 (P) or 12 (P)
- Database Design (2 periods) OR
- CART Technology Applications I or II
# Appendix

### a-g COURSE LIST

#### a History/Social Science
- American Government
- AP American Government
- AP European History
- AP Human Geography
- AP US History
- California US History & Geog. (Edgenuity)
- Honors US History/Geography
- Honors World History
- IB History HL
- Modern World History
- Race and Social Justice
- United States History
- Principles of American Democracy (Edgenuity)
- US History Since the Civil War (APEX)

#### b English/Language Arts
- Advanced Composition
- AP English Language & Composition
- AP English Literature & Composition
- Applied Medical English
- Bible as Literature
- Dramatic Lit/Playwriting
- English I/IV
- Expository Reading & Writing
- Honors English I/III
- IB English HL
- Individual in Society
- Intermediate Composition
- Mythology
- ROP Journalism and Publishing Careers
- Science Fiction
- Themes In Literature

#### c Mathematics
- Algebra I/II
- AP Calculus AB
- AP Calculus B
- AP Statistics
- Geometry
- Honors Algebra II
- Honors Geometry
- Honors Trigonometry
- IB Mathematical Studies
- Probability & Statistics
- Trigonometry

#### d Laboratory Science
- Adv. Science Topics (CART)
- Adv. Electronics
- Agricultural Biology
- Anatomy Physiology (CART)
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics I
- AP Physics B
- Biology
- Biological Links to Energy and the Environment
- Chemistry
- Green Up and Go
- Honors Biology
- Honors Chemistry
- Honors Physics
- IB Biology SL
- IB Chemistry
- IB Physics SL
- Nutritional Science
- Physics
- Physiology
- Principles of Biomedical Science
- Zoology

#### e Language Other Than English
- American Sign Language I/II
- AP French Language
- AP German Language
- AP Spanish Language
- AP Spanish Literature
- French I-IV
- German I-IV
- Hmong for Native Speakers I/II
- IB French Standard Level
- IB Latin SL
- IB Spanish SL
- Latin I-IV
- Mandarin Chinese I-III
- Spanish for Native Speakers I/II
- Spanish I-IV

#### f Visual/Performing Arts
- Intermediate Midi
- Intermediate Orchestra
- Intro to Engineering Design
- Introduction to Theatre
- Jazz Band Adv.
- Latin/Jazz Ensemble
- Mariachi Band
- Multimedia
- Multimedia Graphics II
- Painting II
- Percussion Ensemble
- Performing Arts Singers
- Photo I/II
- Piano I/II
- ROP Art and Design
- ROP Digital Photography
- ROP Digital Video Production
- ROP Fashion Design
- ROP Multimedia
- Showcase Directing
- String Ensemble
- Symphonic Orchestra
- Theatre I/II
- The Art of Health Science
- Video Production
- Wind Ensemble

#### g Electives
- Adv Topics in Medical Research
- Adv. Topics in Medicine (CART)
- Agricultural Science
- AP Computer Science
- Applied Engineering
- Applied Kinesiology
- Applied Medical Sciences
- AP Macroeconomics
- AP Microeconomics
- AP Psychology
- Basic Programming
- Biochemistry
- Bioengineering (CART)
- Biomedical Innovations
- Business Innovation & Design
- Business Technology
- Chemical Engineering &
College & Career Centers

Each high school campus has a College & Career Center dedicated to supporting the Fresno Unified goal of preparing Career Ready Graduates. The College & Career Center is highly integrated with Career Technical Education and academic counseling. Each center functions as a link between the business community, higher education, high school counseling and the District’s College & Career Readiness Departments to offer students an array of services and opportunities to support ALL students.

**SERVICES**
- Work Permits
- Work Based Learning Experiences
- Industry Guest Speakers
- Resume Workshops
- Job Shadowing
- Internship Opportunities, paid and unpaid
- Career Interest Inventories
- Volunteer and Service Learning Information and Opportunities
- College & Career Readiness Grade Level Presentations
- ASVAB Testing
- College Application Support
- Fresno Adult School Presentation
- FAFSA / Dream Act Support
- Personal Statement Workshops
- SAT/ACT Registration
- Scholarship Information and Support

**EVENTS & ACTIVITIES**
- College Night @ Fresno Convention Center
- Career Technical Education Expo Night @ Fresno Convention Center
- Field Trips to Industry Partners
- Field Trips to Colleges
- Career Skills Challenge Event
- Campus College Fair Event
- Campus Career Fair Event
- Industry Guest Speakers
- College Guest Speakers

**CAREER CENTER LOCATIONS**
- Bullard High School
- Cambridge High School
- DeWolf High School
- Duncan Polytechnical High School
- Edison High School
- Fresno High School
- Hoover High School
- McLane High School
- Phoenix Secondary Academy
- Roosevelt High School
- Sunnyside High School
**WHAT IS LINKED LEARNING?**

Linked Learning provides technical courses integrated with rigorous academics, and combines career-based learning and real-world experiences to make daily learning relevant. Geared for high school students, career oriented pathways such as engineering, health care, law and social justice, and business expose students to possible college and career opportunities while addressing employer needs. For students, it answers the question, "Why do I need to learn this?" Linked Learning enhances options for ALL our students and ultimately fulfills the Fresno Unified mission of Preparing Career Ready Graduates.

**FOUR PRINCIPLES OF LINKED LEARNING**

- **Rigorous academics** that prepare students for success in college as well as apprenticeships and other post-secondary programs and employment
- **Demanding technical courses** through a cluster of classes emphasizing practical application
- **Work-based learning** in real-world workplaces, job shadowing, apprenticeships, internships, and professional and technical skill building opportunities
- **Personalized student support** services including counseling and supplemental instruction in reading, writing, and math to help students master rigorous academic, professional, and technical skills

---

**COMMUNITY IMPACT**

+ Employers provide students exposure to high quality work-based learning opportunities and assist in building a high quality employee pool
+ Educators establish relationships with local industry representatives
+ Increased highly-skilled workforce

**2016 - 2017 HIGH SCHOOL LINKED LEARNING PATHWAYS**

- **Bullard**: Business, Entrepreneurship & Technology; Biomedicine; Law & Social Justice
- **Duncan**: Innovative Design and Applied Technology Academy (IDATA); Medical Application of Science & Health (MASH)
- **Edison**: Biomedicine & Technology; Engineering Design & Development
- **Fresno**: Innovative Design and Engineering Academy (IDEA); Marketing Academy
- **Hoover**: Public Service; Eco-Technology; Media, Design & Production
- **McLane**: Educational Careers Academy; Academy of Finance & Entrepreneurship; Medical Education & Research Academy
- **Patiño**: Business, Entrepreneurship, & Technology
- **Roosevelt**: Careers in Education; Health Academy
- **Sunnyside**: Agriscience & Technology; Multimedia & Marketing; Human Services & Health
A Tradition of Excellence

There is something for everybody including college-level Advanced Placement courses, championship athletic teams, award-winning music programs, multiple career pathways, and high-interest clubs. Come experience the talented teachers, spirited students, and exceptional environment at Bullard High School.

Select high-interest electives in performing arts, visual arts, business, science and world languages. Career Pathways extend your learning and provide technical skills while meeting college entrance requirements. Specialty courses such as Leadership and Link Crew provide opportunities to help fellow students grow intellectually and socially during their fun and productive high school years. Join hundreds of students who attend the Center for Advanced Research and Technology (CART) for part of the day to learn in a collaborative, hands-on educational setting.

Pathways & Programs

- Biomedicine: a Linked Learning pathway that helps build students’ knowledge of anatomy and physiology. Students will study public health to create a community change. Students will participate in direct and hands-on instruction, as well as real-world experiences and presentations by professionals.

- Business, Entrepreneurship, and Technology: a Linked Learning pathway where students will learn about business administration, marketing and entrepreneurship. Experiences include real-world, hands-on opportunities as well as developing the skills necessary to manage/create their own business.

- Law & Social Justice: a Linked Learning pathway where students will learn about criminal and civil law, forensic research, and concepts of equity and justice. Students will have the opportunity to participate in real-world experiences and hear from professionals within the legal field.

Learn more at go.fresnou.org/bullard
Begin Your College Experience Now!

Are you already looking forward to the challenge of college? Why not start right now. DSHS is 100% focused on college success. Students can earn up to 60 units of transferable college credit and finish high school in 4 years. Students at DSHS take an accelerated academic pathway in 9th and 10th grade and embark on full-time college in the 11th and 12th grade. You must attend starting in your 9th grade year to join the many student who desire the challenge of the Early College environment.

Design Science High School is committed to student success by encouraging and motivating students to be college and career ready. Students are encouraged and supported in maintaining a high grade point average (GPA) in their educational endeavors.

Program

- **Academic Success and the College Experience:**
  Design Science students have the opportunity to earn between 9 and 22 college credits per year. The class of 2015 took and passed the following baccalaureate level courses:
  
  + 94% passed English 1A
  + 83% passed a transferrable math course
  + 96% passed a life science course
  + 96% passed a visual-performing arts course

Collaboration with Fresno City College provides an opportunity to earn up to 60 transferable units to a UC, CSU or private university.

- **High Expectations Leads to High Rewards:**
  Design Science has high expectations for students and their families—so everyone can reach their full potential.

---

**2004 E CAMBRIDGE AVENUE**
FRESNO, CA 93703
(559) 248-7353

**STUDENT POPULATION**
250

**GRADES**
9 - 12

**SCHOOL TYPE**
Magnet with Early College Program

Learn more at go.fresnou.org/designscience
Duncan Polytechnical High School

A School of Opportunity

Providing students with options and opportunities after high school is our focus. Our goals are to prepare students for the highest number of options after high school and to ensure students are prepared for both college and a successful career. This is why we offer programs that teach skills in marketable, jobready fields with hands-on learning, devoted teachers, and engaging classes.

Duncan is a specialized magnet program that combines rigorous ag classes with Career Technical Education electives and 2 hour block ROP Lab classes. At Duncan we offer the best of both worlds; a strong educational foundation and hands-on career experience to ensure that students are ready for the greatest number of options after high school. Each pathway at Duncan has certification opportunities which makes students more employable upon graduation. When you graduate from Duncan, you are College and Career Ready.

Pathways & Programs

- **Innovative Design & Applied Technology Academy (IDATA):** a Linked Learning pathway that focuses on technology careers, design process, industry certifications, and progressive skill development. IDATA has specialized pathways in:
  + Automotive
  + Construction
  + Advanced Manufacturing
  + Welding

- **Medical Academy of Science & Health (MASH):** a Linked Learning pathway that focuses on patient care in the medical field. Students in the MASH Academy obtain CPR certification, engage in medical terminology, and have the opportunity to certify in different medical pathways such as:
  + Nursing (Certified Nursing Assistant)
  + Rehabilitation Therapy Aid

- **Air Force JROTC:** offering the only Air Force JROTC program in Fresno Unified. JROTC offers training in leadership skills, discipline and much, much, more.

---

4330 E. GARLAND AVENUE  
FRESNO, CA 93726  
(559) 248-7080

STUDENT POPULATION 1,000

GRADES 9 - 12

SCHOOL TYPE  
Magnet with Pathway Programs

Learn more at go.fresnou.org/duncan
Rise to The Challenge

Pride. That’s the feeling you get as you walk the campus of Edison High School. Pride in yourself, pride in your fellow students, and pride in your community. You know that you are at one of the top schools in the entire Central Valley—unmatched in academics and athletics—and that the opportunities to achieve are limitless.

Edison High is one of the top academic schools in the Central Valley. Our students know that they will be challenged academically and pushed a little harder to succeed. We offer a wide array of Advanced Placement courses, including courses offered at no other Fresno Unified schools, including: AP Computer Science, AP Studio Art, AP Microeconomics, AP Music Theory and AP Physics C: Mechanics.

Pathways & Programs

- **Biomedical Sciences and Technology**: a Linked Learning pathway nationally recognized program in STEM education that will broaden the students’ understanding of the careers and collegiate majors associated with the medical field.

- **Engineering Design and Development Pathway**: a Linked Learning pathway that emphasizes project-based learning through hands-on courses in CADD (Computer Aided Drafting and Design), Electronics, Robotics, and Manufacturing.

- **Computer Science Program**: students within a 4-year sequence of courses will learn object oriented programming, scripting, and web and application design.

- **Green Energy and Technology Academy**: with the support of PG&E, students will gain skills and knowledge in the growing Energy and Utilities Industry with unparalleled access to industry mentors, internships, and support.

Learn more at [go.fresno.org/edison](http://go.fresno.org/edison)
Fresno High School

Innovation Meets Historical Excellence

Tradition. Honor. Excellence. These words describe the core of the Fresno High experience. New construction with modern technology-rich classrooms blends with the architectural features of historic Royce Hall.

Walking the hallways you see students engaged in challenging academic work and activities designed to connect with real-world situations. Staff are committed to the vision of providing an academically rigorous and relevant program which teaches students to act responsibly, think critically, and contribute to a changing global society. No matter your interest, there is a place for you at Fresno High.

Pathways & Programs

- **Innovative Design and Engineering Academy:** a *Linked Learning pathway* featuring hands-on courses in CADD (Computer Aided Drafting and Design) that gives students who complete the program a competitive edge when applying for college and/or entry level STEM career opportunities by receiving an International Baccalaureate Career Certificate.

- **Marketing Academy:** a *Linked Learning pathway* that includes the long established Fresno High California Partnership Academy program, that integrates marketing and entrepreneurship with academic core classes.

- **Army JROTC:** offers training in leadership skills, discipline and much, much, more.

- **International Baccalaureate Middle Years Program (MYP) & Diploma Program (DP):** all students in grades 9 & 10 are part of the school-wide IB MYP, which features student centered, inquiry-based and hands on learning across all disciplines. The goal is for all FHS students in 11th and 12th grade to be prepared for college and career, with IB Full Diploma recipients earning high acceptance rates at most universities.

---

1839 N. ECHO AVENUE  
FRESNO, CA 93704  
(559) 457-2780

STUDENT POPULATION  
2,500

GRADES  
9 - 12

SCHOOL TYPE  
Traditional School with Pathway Programs and International Baccalaureate

Learn more at [go.fresnou.org/fresno]
Over Fifty Years of Patriot Pride

Patriots have a rich history of serving the community through educational excellence. School spirit is at the heart of the Hoover community and every Pate “bleeds green.” Pride, collaboration, and community are essential in our academics and athletics; Patriots know how to compete, while also continuing a strong tradition of inclusion and acceptance. Every day is a great day to be a Pate!

Hoover High School (HHS) is on the forefront of developing Linked Learning Pathways for student success in Fresno Unified. At HHS we have implemented 3 Linked Learning Pathways: Public Service, Eco-Technology and Media, Design and Production. These pathways each prepare our students for college, technical training and careers through collaborative classrooms in Career Technical Education, English, Science and Social Studies. Our teachers work together for all four years to help implement real world application in all of our career areas to set our students on a track of academic success for any goal, especially college.

Pathways & Programs

- **Eco-Technology: a Linked Learning pathway** that allows students to examine real-world applications related to environmental and agricultural themes. The pathway offers students college prep academics, relevant technical education and work-based learning opportunities through investigative science practices.

- **Media, Design and Production: a Linked Learning pathway** built for the 21st century offers students the opportunity to explore and learn in the areas of Multimedia, Photography, Film and Theater. Working with the latest in industry standards for video and photography, students will be able to apply techniques from the latest software and produce content that will prepare them for college and career.

- **Public Service: a Linked Learning pathway** that offers students career opportunities in the exciting and dynamic industries of Firefighting, Emergency Medical Services, Criminal Justice and Government Agencies. Students will have the opportunity to interact and train with professionals in the public service fields.

Learn more at [go.fresno.org/hover](go.fresno.org/hover)

McLane students experience a vast abundance of activities, clubs, athletics, and other positive engagements that play a tremendous part in their development. Teachers and administrators have made building positive relationships with McLane students and their families a top priority. Every plan created and/or action taken is done so with the objective of using education to improve student lives through academic, social, and emotional growth and success. Graduate with promise and return home with HONOR!

Create memories you will cherish for a lifetime and make the most of your high school learning experience. At McLane, you can join league championship athletics, leadership, language clubs, arts clubs, band, Color Guard, choir, Hmong Club, Black Student Union, Academic Decathlon, Future Artist Club, Rock Climbing Club, Key Club, Mock Trial, Folklorico, cooking, welding and so much more.

Pathways & Programs

- **Academy of Finance and Entrepreneurship**: a *Linked Learning pathway* that offers real-world, hands-on experiences within the field of finance, as well as developing the skills necessary to manage and create your own business.

- **Educational Careers**: a *Linked Learning pathway* that teaches real-world education concepts and provides a hands-on learning experience that will be useful in any profession.

- **Medical Education and Research**: a *Linked Learning pathway* that prepares students for a career in medicine by offering real-world internship opportunities and an excellent college preparation environment that provides multiple options upon graduation.

- **Army JROTC**: offers training in leadership, discipline and much, much, more.

- **Art Venture**: an award-winning and nationally recognized California Partnership Academy that offers exciting career choices in art and design.

Learn more at [go.fresnou.org/mclane](go.fresnou.org/mclane)
Patiño School of Entrepreneurship

Thinking Outside of The Box

The Phillip J. Patiño School of Entrepreneurship is a new model for secondary education. It’s an applied entrepreneurship school that fosters real-world skills — critical thinking, problem solving, and collaboration — and as seniors, students launch their own companies.

We believe the best learning happens when students have the opportunity to apply knowledge. Students start their own businesses. They build real websites for companies during internships. Every day presents opportunities to problem solve, think critically, and build something new. From our specialized INCubatoredu entrepreneurship courses, to our technology courses designed in partnership with Geekwise Academy, to our newly approved AP Capstone which gives students a graduate school experience through the new AP Capstone program. The AP Seminar and AP Research courses allow students to develop a thesis-like research project focused on case studies of real businesses.

• Entrepreneurship: Every student takes the Business Startup Incubator course and the Business Startup Accelerator course. Through these classes, students learn the Lean Startup process, plan a business, pitch for startup capital, and start a business during their senior year.

• Mini MBA: Students who want to learn more about business can be part of our Mini MBA (Master’s in Business Administration) program. Students gain a graduate school experience through the new AP Capstone program. The AP Seminar and AP Research courses allow students to develop a thesis-like research project focused on case studies of real businesses.

• Technologist: All students take a foundational technology course in Online Marketing or Web Development. Students who want to accelerate in these areas can also take Advanced Online Marketing or Web Development and AP Computer Science. Online Marketing and Web Development courses are taught in partnership with Geekwise Academy with the support of a technology consultant.

Learn more at go.fresno.org/patino

2000 E. CAMBRIDGE AVENUE
FRESNO, CA 93703
(559) 248-7360

STUDENT POPULATION
500

GRADES
10 - 12

SCHOOL TYPE
Magnet with Pathway Programs

2016–2017 HIGH SCHOOL COURSE GUIDE 67
Roosevelt High School

Opportunities to Shine

Roosevelt is the district’s third oldest high school, steeped in rich tradition and a legacy that continues to thrive today. Student support is a key ingredient to success. Encouragement comes from teachers, staff, and parents, but also from community mentors, counselors, volunteers, and most importantly, students that share your same interests and goals, which contributes to making the high school experience memorable.

A historic campus filled with music wafting through the corridors. Teachers dedicated to helping you grow your talents. This is Roosevelt High School. Whether you have music, design, drama, or sports in your blood, you’ll find unlimited opportunities to shine at Roosevelt. Our goal is to help you succeed in academics, athletics and/or the program you choose to explore so you can become a well-rounded person who gets the most out of life.

Pathways & Programs

- **Careers in Education:** a *Linked Learning pathway* that offers real-world educational opportunities that allow students to learn through meaningful work-based experiences including internships, employment, and/or school-based enterprises.

- **Health:** a *Linked Learning pathway* with the help of our business partner, Community Regional Medical Center, we provide opportunities for students to experience the real world of health care at the only Level One Trauma Hospital in the San Joaquin Valley.

- **Business Academy:** is a partnership between the IRS and RHS and prepares students academically and vocationally for success in college and careers in a selected field.

- **Roosevelt School of the Arts:** RSA students have the opportunity to receive in-depth specialized training in performing, visual, and digital arts from professionals in the field. Choose from courses in the performing arts (dance, drama, vocal and instrumental music), visual arts (drawing, ceramics, fashion design, printmaking) and digital communication arts (animation, multimedia, graphic arts, video production).

---

4250 E. TULARE STREET  
FRESNO, CA 93702  
(559) 253-5200

**STUDENT POPULATION**  
2,100

**GRADES**  
9 - 12

**SCHOOL TYPE**  
Traditional School with Pathway Programs and a Performing Arts Magnet School

Learn more at [go.fresnou.org/roosevelt](http://go.fresnou.org/roosevelt)
Where Everyone Wants You to Succeed

At Sunnyside High School, there are over 60 clubs that will make you feel at home with something for everyone: challenging academics, extracurricular activities, a diverse student body, and extraordinary teachers who will go out of their way to make sure you achieve your goals.

Sunnyside is recognized as an AVID National Demonstration School. AVID stands for Advancement Via Individual Determination and is a college-bound program for traditionally underserved students. There are 450 students enrolled in our AVID Academies, which include the Doctor’s Academy, the Public & Human Services Academy & the AVID Academy. Sunnyside also offers Men’s and Women’s Alliances. We value our students as individuals and believe that involvement in our academic, arts, athletics and activity programs are key to a successful high school experience and a productive life.

Pathways & Programs

• Agriscience & Technology: a Linked Learning pathway that develops essential career preparation skills through technical and experiential education, as well as personal leadership opportunities within the exciting industry of Agriculture and Technology.

• Human Services & Health: a Linked Learning pathway that offers students the opportunity to gain knowledge and experience in the fields of human services, education, health, and medicine. Students will participate in direct and hands-on instruction, as well as real-world experiences and presentations by professionals.

+ Teacher Academy

• Multimedia & Marketing: a Linked Learning pathway that examines the multiple uses of video and print technology in various entertainment and industry sectors. Students will receive hands-on training in pre- and post-production jobs, current and merging technologies, and the creative process.

+ Video Production Academy

1019 S. PEACH AVENUE
FRESNO, CA 93727
(559) 253-6700

STUDENT POPULATION
2,850

GRADES
9 - 12

SCHOOL TYPE
Traditional School with Pathway Programs

Learn more at go.fresnou.org/sunnyside
Centros Universitarios y de Carreras

Cada escuela preparatoria cuenta con un Centro de Universidad y Carrera dedicado a apoyar el objetivo del Distrito Escolar de Fresno en preparar graduados a que estén listos para carreras profesionales. El Centro Universitario y de Carrera está altamente integrado con la Educación de Carrera Técnica y consejería académica. Cada centro funciona como un enlace entre la comunidad empresarial, la educación superior, consejería de la escuela preparatoria y los Departamentos de Preparación para la Universidad y Carrera del distrito para ofrecer a los estudiantes una variedad de servicios y oportunidades para apoyar a TODOS los estudiantes.

SERVICIOS

- Permisos de Trabajo
- Experiencias de Aprendizaje Basado en Trabajo
- Presentadores Invitados de la Industria
- Talleres de Resumen
- Observación del Trabajo
- Oportunidades de práctica, pagado o sin paga
- Inventarios en Carrera de Interés
- Voluntario y Servicios de Información en Aprendizaje y Oportunidades
- Presentación de Preparación de Colegio y Carrera a Nivel de Grado
- Prueba ASVAB
- Apoyo para la solicitud de universidad
- Presentación de la Escuela de Adultos de Fresno
- Apoyo de FAFSA/Dream Act
- Taller de Declaración Personal
- Registración de SAT/ACT
- Información y Apoyo de Becas

EVENTOS Y ACTIVIDADES

- Noche Universitaria en el Centro de Convenciones de Fresno
- Noche de Exposición Educativa en Carrera Técnica en el Centro de Convenciones de Fresno
- Excursiones de Estudio a Socios de la Industria
- Excursiones a Colegios
- Evento de desafío en competencias de Carrera
- Evento de Exposición del plantel escolar
- Evento de Exposición del plantel de carreras
- Presentadores Invitados de la Industria
- Presentadores Invitados del Colegio

UBICACIONES DEL CENTRO DE CARRERA

- Preparatoria Bullard
- Preparatoria Cambridge
- Preparatoria DeWolf
- Preparatoria Duncan Politécnica
- Preparatoria Edison
- Preparatoria Fresno High
- Preparatoria Hoover
- Preparatoria McLane
- Academia Secundaria Phoenix
- Preparatoria Roosevelt
- Preparatoria Sunnyside
¿QUE ES APRENDIZAJE VINCULADO?

Aprendizaje vinculado provee cursos técnicos integrados con académicos rigurosos, y combina carreras basadas en aprendizaje y experiencias reales para hacer aprendizaje diario relevante.

Orientado para estudiantes de la preparatoria, camino orientado de la carrera tal como ingeniería, cuidado de salud, leyes, justicia social, y estudiantes expuestos a comercio para posible oportunidad de carrera y colegio al tiempo que dirige las necesidades del empleador. Para estudiantes, contestar preguntas. “¿Porque yo necesito aprender esto?” Aprendizaje vinculado realiza opciones para TODOS nuestros estudiantes y últimamente cumple la misión del distrito de Fresno Preparando a los Estudiantes Graduados Listo para una Carrera.

CUATROS PRINCIPIOS DE APRENDIZAJE VINCULADO

- Académico Riguroso que prepara estudiantes para éxito en el colegio así bien como aprendizaje y otros programas post secundarios y empleo.
- Exigiendo cursos técnico a través de una agrupación de clases enfatizando aplicación práctica.
- Trabajo basado en aprendizaje en lugares de trabajo reales, observación de trabajos, aprendizaje, internado, y profesional y habilidades técnicas construyendo oportunidades.
- Apoyo a estudiante personalizado servicios incluyendo consejería e instrucción suplementaria en lectura, escritura y matemáticas para ayudar a estudiantes a dominar académico riguroso, profesional y habilidades técnicas.

VIAS DE APRENDIZAJE VINCULADO DE PREPARATORIA 2016-2017

- Bullard: Comercio, empresarial & tecnología, Biomedicina, Leyes & justicia social.
- Duncan: Diseño innovador y Tecnología académica aplicada (DATA); Aplicación Medica de Ciencias & Salud (MASH)
- Edison: Biomédica & Tecnología; Diseño & desarrollo de ingeniería.
- Fresno: Diseño innovador & ingeniería académica (IDEA); Mercadeo académico.
- Hoover: Servicio Público, Eco-tecnología; Media, diseño & producción.
- McLane: Carrera Educacional Académica; Academia de finanza & empresarial, educación Medica & investigación académica.
- Patino: Comercio, empresa & Tecnología.
- Roosevelt: Carrera en Educación; Salud académica.
- Sunnyside: Ciencias agrícola & Tecnología; Multimedia & Mercadeo; Servicios Humanos & Salud
Una Tradición de Excelencia
Hay algo para todos, incluyendo a nivel universitario cursos de nivel avanzado, equipos deportivos de campeonato, programas de música galardonados, múltiples trayectorias profesionales y clubes de alto interés. Ven y experimenta los maestros talentosos, estudiantes enérgicos y un ambiente excepcional en la Escuela Preparatoria Bullard.

Selecciona cursos electivos de alto interés en las artes escénicas, artes visuales, negocios, ciencias y los idiomas del mundo. Caminos de Programas Educativos amplían tu aprendizaje y proporcionan habilidades técnicas, mientras reúnes los requisitos de ingreso a la universidad. Especialmente cursos tales como Liderazgo y Equipo de Enlace dan oportunidades para ayudar a otros estudiantes a crecer intelectualmente y socialmente durante sus años de preparatoria divertidos y productivos. Únete a cientos de estudiantes que asisten al centro de Investigación y Tecnología Avanzada (CART) durante una parte del día para aprender en colaboración con interactivas en entorno educativo.

Caminos y Programas Educativos

- **Biomedicina**: un Camino Conectado con el Aprendizaje ayuda a construir el conocimiento de la anatomía y fisiología de los estudiantes. Los alumnos estudiarán la salud pública para crear un cambio en la comunidad. Los estudiantes participarán en directo en la instrucción, así como en experiencias del mundo real y las presentaciones de los profesionales.

- **Comercio, Iniciativa Empresarial y la Tecnología**: un Camino Conectado con el Aprendizaje donde los estudiantes aprenderán acerca de la administración de empresas, mercadeo y la iniciativa empresarial. Las experiencias incluyen oportunidades de entrenamiento del mundo real, así como desarrollar las habilidades necesarias para administrar/crear sus propios negocios.

- **Derecho y Justicia Social**: un Camino Conectado con el Aprendizaje donde los estudiantes aprenderán acerca de la ley penal y civil, la investigación forense, y conceptos de equidad y justicia. Los estudiantes tendrán la oportunidad de participar en experiencias del mundo real y escuchar a profesionales dentro del ámbito legal.

Más información en go.fresnou.org/bullard
¡Comienca tu experiencia del colegio ahora!

¿Estás anticipando el reto del colegio? Por qué no comenzar ahora mismo. DSHS es 100% enfocado en el éxito del colegio. Los estudiantes pueden conseguir hasta 60 unidades transferible de créditos del colegio y terminar la escuela secundaria en 4 años. Los estudiantes en DSHS toman un camino académico acelerado en el 9no y 10mo grado y se embarcan en el Colegio a tiempo completo en el grado 11 y 12. Debe asistir a partir de su 9º año de grado para unirse con muchos otros estudiantes que desean el reto del ambiente del Colegio Temprano.

La preparatoria Design Science está comprometida al éxito estudiantil animando y motivando a estudiantes para estar listos para colegio y carreras. Los estudiantes son animados y apoyados en el mantenimiento de un alto promedio de calificaciones (GPA) en sus esfuerzos educativos.

Programa Educativo

- Éxito Académico y la Experiencia del Colegio:
  Los estudiantes de Design Science tienen la oportunidad de ganar entre 9 y 22 créditos de colegio por año. La clase de 2015 tomó y pasó los siguientes cursos del nivel del bachillerato
  + 94% pasaron Inglés 1A
  + 83% pasaron un curso de matemáticas transferible
  + 96% pasaron un curso de Ciencias de vida
  + 96% pasaron un curso de artes visuales

En colaboración con el colegio de Fresno (Fresno City College) se ofrece la oportunidad de conseguir hasta 60 unidades transferibles a una universidad UC, CSU, o universidad privada.

- Altas Expectativas Llevan a Altas Recompensas:
  Design Science tiene altas expectativas para los estudiantes y sus familias-para que todos puedan alcanzar todo su potencial.

2004 E CAMBRIDGE AVENUE
FRESNO, CA 93703
(559) 248-7353

POBLACIÓN ESTUDIANTIL
250
GRADOS
9 - 12

TIPO DE ESCUELA
Imán con programa de Colegio Temprano

Más información en go.fresnou.org/designscience
Proporcionar a los estudiantes con opciones y oportunidades después de la escuela preparatoria es nuestro enfoque. Nuestros objetivos son preparar a estudiantes para el mayor número de opciones después de la preparatoria y para asegurar que los estudiantes estén preparados tanto para el colegio como para una carrera exitosa. Es por eso que ofrecemos programas que enseñan habilidades en comerciable, campos de trabajo listo con aprendizaje interactivo, maestros dedicados y clases atractivas.

Duncan es un programa de imán especializado, que combina clases rigurosas de agricultura con optativas de Educación Carrera Técnica y un bloque de 2 horas de clases de laboratorio ROP. En Duncan ofrecemos lo mejor de ambos mundos; Una base educativa sólida y experiencia profesional interactiva para asegurar que los estudiantes están listos para el mayor número de opciones después de la preparatoria. Cada camino en Duncan tiene oportunidades de certificación que hace que los estudiantes más empleables después de la graduación. Al graduarse de Duncan, estarás listo para Colegio y Carrera.

**Caminos y Programas Educativos**

- **Academia de Diseño Innovador y la Tecnología Aplicada (IDATA):** un Camino Conectado con el Aprendizaje que se concentra en carreras de tecnología, proceso de diseño, certificaciones de la industria, y desarrollo de habilidades progresiva. IDATA tiene caminos especializados en:
  + Automotriz
  + Construcción
  + Fabricación Avanzada
  + Soldadura

- **Academia Médica de Ciencia y Salud (MASH):** un Camino Conectado con el Aprendizaje que se concentra en atención de pacientes en el campo médico. Estudiantes en la Academia MASH obtienen certificación CPR, participan en terminología médica, Y tienen la oportunidad de certificar diferentes caminos médicos como:
  + Enfermería (Asistente Certificado de Enfermería)
  + Ayudante de Terapia de Rehabilitación

- **Las Fuerza Aéreas JROTC:** ofreciendo el único programa de Fuerza Aéreas en el distrito de Fresno. JROTC ofrece entrenamiento en habilidades de liderazgo, disciplina y mucho, mucho, más.

Más información en go.fresnou.org/duncan
Estar a la Altura
Orgullo. Ese es la sensación que se siente cuando caminan el campus de la escuela preparatoria Edison. Orgullo en sí mismo, orgullo de sus compañeros de clase, y orgullo de su comunidad. Sabes que estás en una de las mejores escuelas en todo el Valle Central- incomparable en académicos y atletismo- y las oportunidades para logros son ilimitadas.

La Preparatoria Edison es una de las mejores escuelas académicas en el Valle Central. Nuestros estudiantes saben que serán desafiados académicamente y exigidos un poco más para obtener éxito. Ofrecemos una amplia serie de cursos de Colocación Avanzados, incluyendo cursos ofrecidos en ninguna otra escuela en el distrito de Fresno, Entre ellos: Ciencia de Computación AP, Arte de Estudio AP, Microeconomía AP, Teoría de la Música AP y Física C AP: Mecánica.

Caminos y Programas Educativos

- **Ciencias Biomédicas y Tecnología:** un *Camino Conectado con el Aprendizaje* programa nacionalmente reconocido de Educación STEM que ampliará la comprensión de los estudiantes de las carreras y títulos universitarios relacionados con el campo médico.
- **Camino de Diseño y Desarrollo de Ingeniería:** un *Camino Conectado con el Aprendizaje* que pone énfasis en aprendizaje basado en proyectos através de cursos interactivos CADD (Redacción y Diseño Asistido por Computadora), Electrónica, Robótica, y Fabricación.
- **Programa de Ciencias de Computación:** Los estudiantes dentro de una secuencia de 4 años de cursos, aprenderán programación orientada en objeto, secuenciar, y diseño de internet y aplicación.
- **Academia de Energía Verde y Tecnología:** Con el apoyo de PG&E, los estudiantes obtendrán conocimiento y habilidades en la creciente industria de Energía y Utilidades con acceso incomparable a consejeros de la industria, puestos de interinos y apoyo.

Learn more at [go.fresnou.org/edison](http://go.fresnou.org/edison)
Innovación Encuentra Excelencia Histórica

Tradición. Honor. Excelencia. Estas son las palabras que describen la base de la experiencia de Fresno High. La nueva construcción con aulas modernas enriquecidas con tecnología se mezcla con las características arquitectónicas del histórico Royce Hall.

Caminando entre los pasillos puedes mirar a los estudiantes comprometidos al desafiante trabajo académico designados para conectar con situaciones del mundo real. El Personal está comprometido con la visión de ofrecer un programa académico riguroso y relevante, que enseña a los estudiantes a actuar responsablemente, pensar críticamente, y contribuir a una sociedad global cambiante. No importa tu interés hay un lugar para ti en Fresno High.

Pathways & Programs

- Academia de Ingeniería y Diseño innovador: un Camino Conectado con el Aprendizaje ofrece cursos prácticos en CADD (Redacción y Diseño Asistido por Computadora) que ofrece a los estudiantes que completan el programa una ventaja competitiva al aplicar para la universidad y/o oportunidades de entrada nivel STEM recibiendo un Certificado de Carrera del Bachillerato Internacional.

- Academia de Mercadotecnia: un Camino Conectado con el Aprendizaje que se estableció hace tiempo que incluye el programa de Asociación de la Academia Fresno High California, que integra la mercadotecnia y la iniciativa empresarial con clases académicas.

- Ejército JROTC: ofrece entrenamiento en liderazgo, disciplina y mucho, mucho más.

- Programa de Años Intermedios del Bachillerato Internacional (MYP) Y Programa de Diploma (DP): Todos los estudiantes de grados 9 y 10 son parte de la escuela IB MYP, que ofrece aprendizaje centrado en el estudiante, aprendizaje interactivo basado en la investigación, a través de todas las disciplinas. La meta es que todos los estudiantes de FHS en los grados 11 y 12 estén preparados para la universidad y la carrera, con el recibimiento del Diploma Completo de IB para ganar alto índice de aceptación en la mayoría de las universidades.

Más información en go.fresnou.org/fresno
Más de Cincuenta Años de Orgullo

Patriot

Los patriots tienen una historia rica sirviendo a la comunidad a través de excelencia educativa. El espíritu escolar está en el corazón de la comunidad de Hoover y cada Pate “de sangre verde”. El orgullo, colaboración y comunidad son indispensables en nuestros académicos y deportistas; Los patriots saben cómo competir, mientras que también continuamos una fuerte tradición de inclusión y aceptación. ¡Cada día es un gran día para ser un Pate!

La Preparatoria Hoover (HHS) está en la vanguardia del desarrollo de Caminos Conectados al Aprendizaje para el éxito estudiantil en el Distrito Escolar Unificado de Fresno. En la Preparatoria Hoover hemos implementado 3 Caminos Conectados al Aprendizaje: Servicio Público, Tecnología Ecológica y Medios de Comunicación, Diseño y Producción. Cada uno de estos caminos prepara a nuestros estudiantes para el colegio (college), capacitación técnica y carreras a través de colaboración de los salones de clase en Educación de Carrera Técnica, Inglés, Ciencias y Estudios Sociales. Nuestros maestros trabajan juntos, los cuatro años para ayudar a implementar la aplicación del mundo real en todas nuestras áreas de carrera para colocar a nuestros estudiantes en control del éxito académico de cualquier meta, especialmente el colegio (college).

Caminos y Programas Educativos

• Tecnología Ecológica: un Camino Conectado con el Aprendizaje el cual le permite a los estudiantes examinar las aplicaciones del mundo real relacionado a la redacción ambiental y agrícola. El camino académico ofrece a los estudiantes académicos de preparación para el colegio/universidad, educación técnica relevante y oportunidades de aprendizaje basado en el trabajo a través de prácticas de investigación de ciencias.

• Medios de Comunicación, Diseño y Producción: un Camino Conectado con el Aprendizaje construido para el siglo 21 ofrece a los estudiantes la oportunidad de explorar y aprender en las áreas de multi- medios de comunicación, Fotografía, Filmación y Teatro. Trabajando con los últimos estándares industriales de video y fotografía, los estudiantes serán capaces de aplicar lo último en técnicas del contenido del programa software y producción el cual los preparará para el colegio y una carrera.

• Medios de Comunicación, Diseño y Producción: un Camino Conectado con el Aprendizaje el cual ofrece a los estudiantes oportunidades de carreras industriales apasionantes y dinámicas de Bombero, Servicios de Emergencia Médica, Justicia Criminal y Agencias Gubernamentales. Los estudiantes tendrán la oportunidad de interactuar y capacitarse con los profesionales en los campos de servicio público.
Los estudiantes de McLane tienen una experiencia abundante llena de actividades, clubes, deportes y otras actividades positivas que desempeñan un papel enorme en su desarrollo. Los profesores y los administradores han hecho relaciones positivas de construcción con estudiantes de McLane y sus familias una máxima prioridad. Cada plan creado y/o acción tomada es hecho así con el objetivo de usar la educación para mejorar la vida estudiantil a través del crecimiento académico, social y emocional y el éxito del estudiante. ¡Graduado con promesa y vuelve a casa con HONOR!

Crea memorias que apreciarás para toda la vida y aprovecha al máximo tu experiencia de aprendizaje en tu preparatoria. En McLane tú puedes unirte a la liga de campeones de deportes, liderazgo, clubs de lenguaje, clubs de arte, banda, abanderados, coro, club de Hmong, Unión Estudiantil Africano Americano, Decatlón Académico, Club de Artistas del Futuro, Club de Escalar en Rocos, Club de Llave, Juicio de Prueba, Folclórico, cocinar, soldadura, y mucho más.

•Academia de Finanzas y Emprendimiento: Un Camino Conectado con el Aprendizaje que ofrece experiencias prácticas en el campo de finanzas, así como desarrollar las habilidades necesarias para administrar y crear su propio negocio, en el mundo real.
•Carreras Educativas: Un Camino Conectado con el Aprendizaje que enseña conceptos reales de educación y proporciona una experiencia de aprendizaje práctico que será útil en cualquier profesión.
•Investigación y Educación Médica: Un Camino Conectado con el Aprendizaje que prepara a los estudiantes para una carrera en el campo de la medicina ofreciendo oportunidades de prácticas reales y un ambiente de preparación de Colegio excelente que ofrece múltiples opciones al graduarse.
•Ejército JROTC: ofrece entrenamiento en liderazgo, disciplina y mucho, mucho más
•Empresa de Arte: una Academia de Asociación de California galardado y reconocido a nivel nacional que ofrece interesantes opciones de carrera en arte y diseño.

Más información en go.fresnou.org/mclane
Escuela Preparatoria Patiño Empresarial

Pensando Fuera de la Caja
La Escuela Phillip J. Patiño Empresarial es un nuevo modelo de educación secundaria. Es una escuela empresarial aplicada la cual fortalece las destrezas del mundo real - razonamiento crítico, resolver problemas y colaboración - y como estudiantes del 12vo grado (seniors) lanzan sus propias compañías.

Creemos que el mejor aprendizaje sucede cuando los estudiantes tienen la oportunidad de hacerlo. Los estudiantes inician sus propios negocios. Construyen las páginas de redes de comunicación (websites) para compañías durante la práctica. Todos los días se presentan oportunidades para resolver problemas, razonamiento crítico y construir algo nuevo. Desde nuestros cursos INCubatoredu especializados empresariales, a nuestros cursos de tecnología diseñada en sociedad con la Academia Geekwise, a nuestra recientemente aprobada Colocación Avanzada Capstone la cual le da a los estudiantes una experiencia para graduarse de la escuela. Ofrecemos cursos diseñados para resultados impresionantes del estudiante. La mayoría de los cursos no se pueden encontrar en ninguna otra parte en el Valle Central.

Programas Educativos

- **Empresarial**: Todos los estudiantes toman curso de Business Startup Incubator y el curso de Business Startup Accelerator. A través de estas clases los estudiantes aprenden el proceso de Lean Startup, planear un negocio, y lanzar el inicio capital y comenzar un negocio durante el 12vo grado (senior).

- **Mini MBA**: Los estudiantes que desean aprender más acerca del negocio pueden ser parte de nuestro programa Mini MBA (Maestría en Administración de Negocio). Los estudiantes pueden obtener experiencia de posgrado a través del programa nuevo de Colocación Avanzada (AP) Capstone. Los cursos del seminario AP e investigación AP les permite a los estudiantes desarrollar un proyecto de investigación como tesis enfocados en estudios de caso de negocios reales.

- **Tecnólogo(a)**: Todos los estudiantes toman cursos fundamentales de tecnología de Mercadotecnia en el Internet o cursos de desarrollo de páginas de internet (web) y Ciencias en Computadora AP. Cursos de Mercadotecnia en el internet y Desarrollo de Páginas de internet se enseñan en sociedad con la Academia Geekwise con el apoyo de un consultante tecnológico.

Más información en go.fresnou.org/patino
Oportunidades para Brillar
Hoy en día Roosevelt es la tercera preparatoria más vieja del distrito, basada en una enriquecida tradición y un legado que continúa prosperando. El apoyo estudiantil es un ingrediente clave al éxito. El estímulo viene de profesores, personal y padres, pero también de asesores comunitarios, consejeros, voluntarios, y lo que es más importante de estudiantes que comparten tus mismos intereses y metas, que contribuye a hacer inolvidable la experiencia de la preparatoria.

Un campus histórico lleno de música flotando por los pasillos. Profesores dedicados a ayudarte crecer con tus talentos. Esta es la escuela preparatoria Roosevelt. Si tú tienes música, el diseño, el teatro, o el deporte en la sangre, tú vas a encontrar oportunidades ilimitadas para brillar en Roosevelt. Nuestra meta es ayudarte a ser exitoso(a) en las académicas, deportes y/o el programa que decides explorar para que así puedas llegar a ser una persona centrada que obtiene el máximo provecho de la vida.

Camino Conectado con el Aprendizaje ofrece oportunidades educacionales del mundo real que permite a los estudiantes aprender a través de significativas experiencias interactivas, incluyendo prácticas, empleo, y/o proyectos basados en la escuela.

Salud: un Camino Conectado con el Aprendizaje con la ayuda del Centro Medico Regional de la Comunidad, nuestro socio de negocios, ofrecemos oportunidades a los estudiantes de experimentar el mundo real del cuidado de la salud en el único Hospital del Trauma Nivel Uno en el Valle de San Joaquín.

Academia de Negocios: Es una asociación entre el IRS y RHS que prepara a los estudiantes académicamente y vocacional para el éxito en la universidad y carreras en el campo selecto.

Escuela Roosevelt de los Artes (RSA): Estudiantes RSA tienen la oportunidad de recibir a profundidad entrenamientos especializados en actuación, artes visuales y digitales de parte de profesionales en esas áreas. Puedes elegir entre los cursos en los artes de realización (baile, drama, música vocal e instrumental), artes visuales (dibujo, cerámica, diseño de moda, técnica artística) y artes de la comunicación digital (animación, multimedia, artes gráficas, producción de vídeo).

Más información en go.fresnou.org/roosevelt
**Donde Todos Quieren Que Tengas Éxito**

En La Escuela Preparatoria Sunnyside, hay más de 60 clubs que te harán sentir en casa con algo para todos: Académicos desafiantes, actividades extracurriculares, un alumnado estudiantil diverso, y maestros extraordinarios quienes harán todo lo posible para asegurarse de que tú logres tus metas.

La Preparatoria Sunnyside es reconocida como AVID una Escuela Nacional de Demostración. AVID es sinónimo de Avance a través de la Determinación Individual y es un programa de la universidad unido tradicionalmente a los estudiantes de escasos recursos. Hay 450 estudiantes inscritos en nuestras academias AVID, La cual incluye la Academia Medica, la Academia Pública y Servicios Humanos y la Academia AVID. Nosotros valoramos a nuestros estudiantes como individuos y creemos que la participación en nuestros académicos, artes, deportes y programas de actividades son clave para una experiencia de escuela preparatoria y una vida productiva.

**Caminos y Programas Educativos**

- **Ciencias Agrícolas y Tecnología:** un Camino Conectado con el Aprendizaje que desarrolla habilidades de preparación de carreras esenciales a través de la educación técnica y la experiencia, así como oportunidades de liderazgo personales en el sector de gran interés de la Agricultura y Tecnología.

- **Servicios Humanos y Salud:** un Camino Conectado con el Aprendizaje que ofrece a los estudiantes la oportunidad de obtener el conocimiento y experiencia en los campos de servicios humanos, educación, salud y medicina. Los estudiantes participarán en directo y en la instrucción, así como en experiencias reales del mundo y presentaciones de profesionales.

- **Multimedia y Mercadotecnia:** un Camino Conectado con el Aprendizaje que examina los múltiples usos de vídeo y la tecnología de impresión en diversos sectores de entretenimiento y de la industria. Los estudiantes recibirán entrenamiento de práctica antes y después en trabajos de producción, tecnologías actuales y combinación en el proceso creativo.

- **Academia de Producción de Video**
Preparing Career Ready Graduates

Txhua lub tsev kawm ntawv them siab muaj ib lub Chaw Pab Kev Kawm Ntawv Qib Siab thiab ua Dej Num los txhawb Fresno Unified lub hom phiaj Ua Kom Cov Neeg Kawm Tiav Npaj Txhij Ua Dej Num. Lub Chaw Pab Kev Kawm Ntawv Qib Siab & Dej Num raug tso sib xyaws zoo heev nrog Kev Kawm Txuj Ua Dej Num thiab kev pab tswv yim kawm txuj. Txhua lub chaw pab yuav khiav hauj lwm tam li ib qho chaw sib tshuam rau ntawm lub zej zog kev ua lag luam, kev kawm txuj qib siab, kev pab tswv yim kawm tsev kawm ntawv them siab, thiab Cheeb Tsam Chaw Kawm Ntawv lub Chaw Saib Kev Npaj Txhij Kawm Ntawv Qib Siab & Dej Num los muab rau cov tub kawm ntawv muaj ntau yam ntawm tej kev pab thiab tej hau kev qhib los pab TAG NRHO cov tub kawm ntawv.

**TEJ KEV PAB**
- Ntawv Tso Cai Ua Dej Num
- Kev Kawm Hauv Chaw Ua Dej Num
- Qhua Piav Lus Qhia Txog Seem Dej Num
- Rooj Cob Qhia Kev Ua Ntawv Resume
- Kev Soj Qab Saib Txoj Dej Num
- Hau Kev Qhrib Xyaum Dej Num, them thiab tsis them nqi zog
- Kev Teev Dej Num Ntxim Siab Tseg
- Kev Tuaj Yeev Pab thiab Lus Qhia Kev Kawm thiab Hau Kev Qhrib Ua Dej Num Pab
- Kev Nthuav Qhia Theem Qib Kev Npaj Txhij Kawm College & Dej Num
- Kev Xeem Ntawv ASVAB
- Kev Pab Ua Ntawv Thov Kawm College
- Kev Nthuav Qhia txog Fresno Adult School
- Kev Pab Ua FAFSA/Dream Act
- Rooj Cob Qhia Kev Sau Lus Piav Tus Kheej
- Kev Cuv Npe Xeem Ntaww SAT/ACT
- Lus Qhia thiab Kev Pab Nyiaj Pub

**KOOB TSHEEJ & KEV UA LOM ZEM**
- Hmo Piav College @ Fresno Convention Center
- Hmo Nthuav Tawm Kev Kawm Txuj Ua Dej Num @ Fresno Convention Center
- Kev Tawm Rooj Mus Saib Tej Chaw Sib Koom Seem Dej Num
- Kev Tawm Rooj Mus Saib Tej Colleges
- Koob Tsheej Sib Tw Kev Txawj Dej Num
- Koob Tsheej Nthuav Qhia Txog College Hauv Vaj Loog Kawm Ntawv
- Koob Tsheej Nthuav Qhia Txog Dej Num Hauv Vaj Loog Kawm Ntawv
- Qhua Piav Lus Qhia Txog Seem Dej Num
- Qhua Piav Lus Qhia Txog College

**COV CHAW PAB KEV KAWM DEJ NUM**
- Bullard High School
- Cambridge High School
- DeWolf High School
- Duncan Polytechnical High School
- Edison High School
- Fresno High School
- Hoover High School
- McLane High School
- Phoenix Secondary Academy
- Roosevelt High School
- Sunnyside High School
Preparing Career Ready Graduates

KEV KAWM SIB TSHUAM YOG DAB TSI?
Kev Kawm Sib Tshuam muab tej zaj kev kawm tswv yim ua dej num tso xyaw tej kev kawm txuj haum haum thiab tov kev kawm havu tes dej num thiab kev paub dej num tseeb tiag los ua kom kev kawm txhua hnub muaj feem ncaj nraim. Raug npaj tseg rau cov tub kawm tsev kawm ntawv theem siab, tej txoj kev kawm raws seem dej num xws li kev tsim twj, kev kho mob nkeeg, cai lij choj thiab kev ncaj ncees, thiab kev ua lag luam yuav ua rau tub kawm ntawv pom tej hau kev qhib kawm tau college thiab dej num thuang sam sim daws chaw ua dej num tej kev ntshaw. Rau cov tub kawm ntawv, nws yuav teb tau lo lus nugh, “Vim li cas kuv yuav tsum kawm qhov no?” Kev Kawm Sib Tshuam yuav nce tej kev xaiv tau raws siab nyiam rau TAG NRHO peb cov tub kawm ntawv, nws yuav teb tau lo lus nugh, “Vim li cas kuv yuav tsum kawm qhov no?” Kev Kawm Sib Tshuam yuav nce tej kev xaiv tau raws siab nyiam rau TAG NRHO peb cov tub kawm ntawv, nws yuav teb tau lo lus nugh, “Vim li cas kuv yuav tsum kawm qhov no?”

PLAUB QHO LUS TEEM TSEG NTAWM KEV KAWM SIB TSHUAM
• Tej kev kawm txuj haum haum uas npaj tub kawm ntawv rau kev kawm tau zoo hauv college nrog rau tej kev xyaum dej num thiab lwm cov kev kawm thiab kev ua dej num tom qab tsev kawm ntawv theem siab
• Tej zaj kev kawm tswv yim ua dej num xav tau heev los ntawv ib co chav kawm qhia tsi ntsees kev ua kom tau txiaj ntsim
• Kev kawm hauv tes hauj lwm raws tej chaw ua hauj lwm tseeb tiag, kev soj qab salb txoj dej num, kev xyaum dej num, kev sim dej num, thiab tej hau kev qhib nce kev txawj dej num thiab tswv yim ua dej num
• Kev txhawb pab tub kawm ntawv tus kheej yog xam nrog rau kev pab tswv yim thiab kev qhia txhab ntxiv rau hauv kev nyeem ntawv, kev sau ntawv, thiab kev ua lej los pab tub kawm ntawv kawm tau tej kev txawj txuj ci, dej num, thiab tswv yim ua dej num haum haum

KEV CUAM TSHUAM ZEJ ZOG
- Tej chaw ntiav neeg ua hauj lwm ntuav rau tub kawm ntawv pom tej hau kev qhib kev kawm hauv tes hauj lwm zoo heev thiab pab rau kev tsim muaj ib pawg neeg ua dej num zoo kawg nkaus
- Tej tub txawg ntse tsim muaj kev sib raug zoo nrog tej neeg sawv cev seem kev ua dej num hauv chaw ib cheeb tsam
- Nce tau tsoom neeg ua dej num tshaj lij heev

2016-2017 TSEV KAWM NTAWV THEEM SIAB TEJ TXOJ KEV KAWM SIB TSHUAM
- Bullard: Kev Ua Lag Luam, Kev Rhawv Tawm Lag Luam & Technology; Kev Siv Tshuaj Cawm Siav; Cai Lij Choj & Kev Ncaj Ncees
- Duncan: Kev Tsim Qauv Tawm Tshiab thiab Kev Siv Technology Ua Dej Num (IDATA); Kev Kho Mob Nkeeg Siv Kev Tshawb Fawb & Kev Nyob Dawb Huv (MASH)
- Edison: Kev Siv Tshuaj Cawm Siav & Technology; Kev Tsim Qauv Twj & Kev Tsim Tawm
- Fresno: Kev Tsim Qauv Tawm Tshiab thiab Kev Tsim Twj Siv (IDEA); Kev Nthuav Lag Luam
- Hoover: Kev Pab Pej Xeem; Eco-Technology; Kev Nthuav Xov Xwm, Kev Tsim Qauv & Kev Tsim Tawm
- McLane: Dej Num Qhia Txuj Ci; Kev Ua Lag Luam Nyiaj Txiag & Kev Rhawv Tawm Lag Luam; Kev Kho Mob Nkeeg & Kev Tshawb Ntiaj
- Patiño: Kev Ua Lag Luam, Kev Rhawv Tawm Lag Luam, & Technology
- Roosevelt: Dej Num Qhia Ntaub Ntawv; Kev Nyob Dawb Huv
- Sunnyside: Kev Tshawb Fawb Kev Ua Qoob Loo & Technology; Kev Nthuav Xov Xwm Ntau Yam & Kev Nthuav Lag Luam; Kev Pab Tib Neeg & Kev Nyob Dawb Huv
Bullard High School

Ib Qho Kev Ib Txwm Coj Uas Zoo Kawg Nkaus

Nws yeej muaj ib yam rau txhua tus xam nrog rau tej chav kawm theem college Tso Chow Tshaj Lij, tej theem ki las sib tw, tej kev kawm suab paj nruag yeej khoom plig, txoj kev kawm ntawv muaj yam dej num, thiaj tej koom haum “high-interest”. Tuaj kawm ntawv nrog tej xib fwb muaj kev txawj ntse, tej tub kawm ntawv muaj peev xwm, thiaj tej chaw puag ncìg hauv Bullard High School.

Xaiv tej chav xaiv kawm us nyiam tshaj plaws hauv kev ua yeeb yam, kev ua duab, kev ua lag luam, kev tshawb fawb thiaj ntaij teb tej lus. Txoj Kev Ua Dej Num txuas koj txoj kev kawm ntxiv thiab npaj muaj tej txawj txuj lub sij hawm muaj tej uas tseev kom muaj rau kev nkg college. Tej chaw kawm tshwj xeeb xws li kev Ntaus Thawj thiab “Link Crew” npaj muaj sij hawm los pab tej tub kawm ntawv kev txawj ntse loj hiob thiab kev sib haum xeeb lub sij hawm cov xyoo lawv kawm tsev kawm ntawv theem siab muaj kev lom zem thiab tau txij ntsim. Koom nrog ntawv muaj pua tus tub kawm ntawv nws mus koom lub chaw Center for Advanced Research thiab Technology (CART) rau ib feem ntawm hnub kawm los sib koom kawm ua ke, nqis tes kawm txuj ci.

Txoj Kev & Tej Kev Kawm

- Biomedicine: ib qho Kev Txsas Kev Kawm uas ua tau rau tej tub kawm ntawv muaj kev paub txog lub nrog cev thiaj nws ua hauj lwm li cas. Tej tub kawm ntawv yuav kawm txog pej xeeem kev noj qab nyob huv huv los tsim ib txoj kev hloov lub zej lub zos. Tej tub kawm ntawv yuav muab kev koom tes ncaj rraim rau thiab nqis tes qaia kiag, thiaj lub neej tiag tiag thiab tej kev nthuav quaia los ntawm tej neeg paub dej num.


- Cai & Keu Haum Xeeb Ncaj Ncees: ib qho Kev Txsas Kev Kawm uas tej tub kawm ntawv yuav tau kawm txog cau rau txim thiaj kev nplua, tshawb nria thiaj, thiab tej tsix yim kev muaj vaj huan thiaj kev ncaj ncees. Tej tub kawm ntawv yuav muaj sij hawm los koom tes hauv lub neej tiag tiag thiab tau hnuv los ntawm tej neeg paub dej num hauv seem kev cai.

Learn more at go.fresnou.org/bullard
Learn more at go.fresnou.org/designscience
Duncan Polytechnical High School

Ib Lub Tsev Kawm Ntawv Muaj Kev Qhib

Npaj muaj tub kawm ntawv tej kev xaiv thiab sij hawm qhib tom qab kawm tiav high school yob peb lub hom phiaj. Peb lub hom phiaj yog los npaj tej tub kawm ntawv rau tej kev xaiv ntau tshaj plaws tom qab high school thiab kom paub meej tias tej tub kawm ntawv twb npaj txhij rau tag nrho kev kawm college thiab ib qho kev nrsiav dej num. Twb yog vim li no peb thiaj qhib muaj tej kev kawm uas qhia tej kev txawj hauv kev ntwuv lag luam, seem npaj txhij ua hauj lwm nrog rau kev nqis tes kawm kiaj, tej xib fwb kub siab ntsos, thiab tej chav kawm muaj kev sib txuam.

Duncan yog ib qho kev kawm tshaj lij tshwj xeeb uas txuam nrog tej chav kawm ua qoob ua loo nrog rau tej chav kawm xaiv Career Technical Education thiab tej chav ROP Lab 2 xuaj mooz. Hauv Duncan peb qhib muaj yam zoo tshaj plaws ntawm ob lub ntiaj teb; muaj ib lub hauv paus kev kawm txuj ci ruaj khov thiab dej num nqis tes ua kiaj kom paub meej tias tej tub kawm ntawv twb npaj txhij rau tej kev xav ntau kawg nkaus tom qab kawm tiav tsev kawm ntaww theem siab. Tej txwb txoj kev kawm hauv Duncan muaj kev qhib tau txais ntawv pov thawj uas ua rau tej tub kawm ntaww tau dej num ua ntau thauam kawm tiav. Thauam twg koi kawm tiav los ntawm Duncan, koj twb yeej Npaj Txhij Rau College thiab Ua Dej Num lawm.

Txoj Kev & Tej Kev Kawm

• Innovative Design & Applied Technology Academy (IDATA): ib qho Txsas Kev Kawm uas ua tsi ntses rau tej dej num txuj siab, kev tsim khoom, tej ntaub ntawv pov thawj tsim khoom, thiab kev cob qhia kev txawj. IDATA muaj txoj kev tshwj xeeb rau
  + Kho Tsheb
  + Ua Vaj Ua Tsev
  + Tshaj Lij Kev Tsim Khoom
  + Ham Hlau

  + Nursing (Certified Nursing Assistant)
  + Rehabilitation Therapy Aid

• Air Force JROTC: qhib muaj kev kawm Air Force JROTC nkaus xwb hauv Fresno Hauv Paus Tsev Kawm Ntawv. JROTC qhib muaj kev cob qhia tej kev txawj ntaus thawj, rau txim thiab ntau ntau ntxiv.

Learn more at go.fresnou.org/duncan
Edison High School

Sawv Los Sib Tw


Txoj Kev & Tej Kev Kawm

• Biomedical Sciences and Technology: : ib qho Kev Txuas Kev Kawm qhov kev kawm lees paub thooob teb chaws hauv STEM kev kawm txuj ci uas yuav rau tej tub kawm ntawv to taub txog tej kev ua dej num thiab tej yam mus kawm college muaj feem rau yam kev kho mob.

• Engineering Design thiab Development : ib qho Kev Txuas Kev Kawm uas ua tsi ntsees rau lub hauv paus txoj kev kawm los ntawv kev nqis tes kawm kiag hauv CADD (Computer Aide Drafting thiab Design), Hluav Taws Xob, Robotics, thiab Kev Tsim Khoom.

• Computer Science Program: cov tub kawm ntawv hauv kev kawm 4 xyooos yuav kawm txog khoom sib dhos, kev sau, thiab kev tsim “web” thiab kev siv.

• Green Energy and Technology Academy: nrog rau kev txhawb pab los ntawm PG&E, cov tub kawm ntawv yuav muaj kev txawj thiab paub txog kev ua Lub Zog thiab Chaw Tsim Hluav Taws Xob nrog rau cov neeg qhia tsim khoom, tej dej num ua xyaum, thiab kev txhawb pab.

Learn more at go.fresnou.org/edison
Kev Hloov Ntshib Keeb Kwm Zoo
kev lig kev cai, Muaj Koob Meej, Zoo Heev. Tej lus no qhia tau lub ntsiab ntawm Fresno High txog kev kawm ntawv. Vaj tse ua tshiab muaj tej twj txuj ci tshiab ntai tam sim no hauv tej chav kawm xyaw nrog tej duab yam ntxwv chaw ntawm keeb kwm Royce Hall.

Taug taw tej kem tsev mus koj yuav pom tej tub kawm ntawv txuam nrog hauj lwm txuj ci tshaj li thiab tej dej num tsm txuas nrog tej teeb meem lub ntiaj teb muaj. Cov neeg khiav dej num tau cog lus rau lub zeeem muag ntawm kev npaj ib txoj kev kawm txuj ci haum thiab kev kawm haum uas qhia tej tub kawm ntawv kom muaj kev ris dej ris num, kev xav tseem ceeb, thiab muab kev koom tes rau kev hloov ntiaj teb kev ua neej. Txawm koj qhov kev xav yuav yog li cas los xij, nws yeej muaj ib qho chaw rau koj hauv Fresno High.

Fresno High School

Tsoj Kev & Tej Kev Kawm

- **Innovative Design thiab Engineering Academy:** ib qho *Kev Txuas Kev Kawm* muaj tej chav kawm nqis tes ua kiag hauv CADD (Computer Aided Drafting and Design) uas muab tej tub kawm ntawv nws kawm tiaw qhov kev kawm ib qho kev sib tw thauam thov rau college thiab/los yog theem kev nkag STEM tej dej num qhib muaj los ntawm tau txais daim Ntawv Pov Thawj Dej Num Interantional Baccalaureate.

- **Marketing Academy:** ib qho *Kev Txuas Kev Kawm* uas xam nrog rau kev tau tsm quav kev kev kawm rrog Fresno High California Koom Tes Kawm Txuj Ci ntev loo los, uas txuam nrog kev nthuav lag luam thiab kev ua lag luam nrog cov chav kawm txuj ci tseem ceeb.

- **Army JROTC:** qhib muaj kev cob qhia rau tej kev txawj ua thawj coj, rau txim thiab ntai ntaw ntxiv

- **International Baccalaureate Middle Years Program (MYP) & Diploma Program (DP):** tag nrho cov tub kawm ntawv hauv qib 9 & 10 yog ib feem ntawm tsev kawm ntawv *IB MYP* thoob plaws, uas muaj tej yam ntxwv tub kawm ntawv, hauv paus kev thov thiab kev nqis tes kawm kiag thoob plaws tej zaij kev kawm. Lub hom phiaj yog rau txhua tug tub kawm ntawv hauv FHS hauv qib 11 thiab 12 npaj txhij rau kev kawm college thiab dej num, uas tej neeg tau txais IB Ntawv Pov Thawj muaj tus naj npawb raug txais coob dua hauv ntai lu lub tsev kawm ntawv universities.

Learn more at [go.fresnou.org/fresno](http://go.fresnou.org/fresno)
Ntau Tshaj Li Tsib Caug Lub Xyoo Ntawm Patriot Txoj Kev Muaj Nuj Nqis

Patriots muaj ib qho keeb kwm zoo ntawm kev pab lub zej lub zos los ntawm txoj kev kawm txuj ci zoo. Tsev kawm ntawv lub fwj chim yog nyob rau rnuab plawv ntawm Hoover lub zej lub zos thiab txhua tus Pate “bleeds green.” Kev muaj nqis, kev koom tes, thiab zej zog tseem ceeb heev rau peb kev kawm txuj ci thiab ki las; Patriots paub txog kev sib tw li cas, tib lub sij hawm tseem pheej coj ib txoj kev ib txwm coj ua thiab kev txais yuav. Txhua txhua hnub yog ib hnub zoo los ua ib tug Pate!


Txoj Kev & Tej Kev Kawm

• Eco-Technology: ib qho Kev Txaas Kev Kawk ua pub tej lub kawm ntawv tshuj xyuas lub ntiaj teq teq kev siv muaj feem rau yam ntxwv chaw thiab kev ua qoob ua loo. Txoj kev kawm qhib muaj kev npaj muaj kev kawm txuj ci college, muaj feem rau txuj ci txuj siab thiab teq sij hawm qhib muaj kawm hauv kev ua hauj lwm los ntawm kev tshuj xyuas kev tshawb fawb.

• Media, Design thiab Production: ib qho Kev Txaas Kev Kawk tsim rau ti 21 qhib muaj lub kawm ntawv sij hawm los ntsuam xyuas thib kawm txog tej suam ntawm “Multimedia, Yees Duab, Film thiab Kev Ua Yeeb Yam. Ua hauj lwm nrog tej qauv tsim khoom tshib tshib rau kev kev u yeeb yaj duab thiab yees duab, teq lub kawm ntawv yuav muaj peev xwm siv tau tej tswv yim los ntawm teq “software” tshib thiab teq tej yuav npaj lawv rau kev kawm college thiab hauj lwm.

• Public Service: ib qho Kev Txaas Kev Kawk kev txuas txoj kev kawk uas qhia muaj lub kawm ntawv sij hawm ua deq num hauv kev muaj siab hlo thiab teq hauj lwm tshiab ntawm Kev Tua Hluav Taws, Tej Kev Pab Kho Mob Xwm Geev, Kev Rau Txim Ncaj Ncees thiab Tej Koom Haum Nom Tswv. Tej lub kawm ntawv yuav muaj sij hawm los txuam nrog thiab raug cob qhia nrog tej neeg paub dej num hauv seem kev pab pej xeeem.

Hoover High School

Learn more at go.fresnou.org/hoover

5550 N. FIRST AVENUE
FRESNO, CA 93710
(559) 451-4000

STUDENT POPULATION
1,900

GRADES
9 - 12

SCHOOL TYPE
Traditional School with Pathway Programs
McLane High School

Muaj Koob Meej. Muaj Nqis. Muaj Peev Xwm
Mclane cov tub kawm ntawv tau ua ntau ntau yam ntawm tej dej num, tej koom haum, tej kev ua ki las, thiab lwm yam kev sib txuam muaj nqis uas yog ib feem tseem ceeb heev ntawm lawv kev loj hlob. Tej xib fwb thiab tej thawj coj tau nrhawv muaj kev sib raug zoo nrog Mclane tej tub kawm ntawv thiab tej yim tsev neeg yog ib qho tseem ceeb tshaj plaws. Txhua txhua qhov kev npaj tau tsi muaj thiab/los yog kev ua yuav tsum kom tiav nrog rau qhov tseeb ntawm kev siv kev kawm txuj ci los txhawb tub kawm ntawv lub neej los ntawm kev kawm txuj ci, kev haum xeeb, thiab kev tsis nyuaj siab nyuaj ntsiw thiab vam meej. Kawm tiav nrog kev cog lus thiab rov mus vaj mus tsev MUAJ KOOB MEEJ!

Tsim muaj tej kev nco txog koj yuav txaus siab heev rau lub neej ntev ntev thiab ua kom kawm tau ntau tshaj plaws koj txoj kev kawm tsev kawm ntawv them siab. Hauv Mclane, koj muaj peev xwm koom tau hauv kev sib tw ki las, kev ntaus thawj, tej koom haum kawm lus, tej koom haum kos duab, suab paj nruag, Color Guard, nqua yas suab, Koom Haum Hmoob, Koom Haum Tub Kawm Ntawv Dub, Kev Sib Tw Txuj Ci, Future Artist Club, Koom Haum Nce Pob Zeb, Key Club, Mock Trial, Folklorico, Kev ua noj, cauj hluay thiab ntawv tau ntau ntxiv mus.

Txoj Kev & Tej Kev Kawm

• Txuj Ci ntawm Kev Lag Luam thiab Neeg Ua Lab Luam: ib qho Kev Txsas Kev Kawm uas qhib muaj lub neej tiag tiag, tej kev nqis tes ua kiaj nrog seem kev ua lag luam thiab tsi muaj tej kev txawj ntsa luav tsum muaj los tsij thiab tsi koj tus kheej lag luam.

• Tej Dej Num Kawm Txuj Ci: ib qho Kev Txsas Kev Kawm uas qhia tej tsvw txuj ci lub neej tiag tiag thiab npaj muaj ib qho qhib nqis tes ua kiaj uas yuav muaj txiaj ntsim rau ib hom dej num twg.

• Txuj Ci Kho Mob thiab Tshawb Nrhiaj: ib qho Kev Txsas Kev Kawm uas npaj tej tub kawm ntawv rau ib qho kev ua hauv lwm muab tshuaj los ntawm qhib muaj sij hawm ua hauv lwm lub neej tiag tiag thiab ib qho kev npaj tau zoo kawm colleg uas npaj muaj ntau txoj kev xaiv thauv kawm tiav.

• Tub Rog JROTC: qhib muaj kev cob qhia kev ntau thawj, kev rau txim thiab ntau ntau yam ntxiv.

• Kev Ua Duab Zoo Nkauj: ib qho dej siab yeej thiab raug paub thoob plaws California Partnership Academy uas qhib muaj tej kev xaiv dej num rau kev kos duab thiab tsi muaj khoom.

2727 N. CEDAR AVENUE
FRESNO, CA 93703
(559) 248-5100

STUDENT POPULATION
1,750

GRADES
9 - 12

SCHOOL TYPE
Traditional School with Pathway Programs

Learn more at go.fresnou.org/mclane
Patiño School of Entrepreneurship

Xav Tawm Ntawm Lub Thawv
Tsev Kawm Ntawv Phillip J. Patino Neeg Ua Lag Luam yog ib tug qauv tshiab rau kev kawm txuj ci theem siab. Nws yog ib qho kev siv rau tsev kawm ntawv neeg ua lag luam muaj kev txawj txog lub neej tiag tiag- kev xav tseem ceeb, kev daws teeb meem, thiab kev sib koom tes- thiab tam li cov kawm qib kaum ob, cov tub kawm ntawv txhawb lawv tus kheej tej kev lag luam.

Peb ntseeg tau tias kev kawm tau zoo tshaj yog tshwm sim thauv cov tub kawm ntawv muaj sih hawm los kawm. Tej tub kawm ntawv piv lawm lag luam tus kheej. Lawv tsim lub chaw rnuab ntug tiag rau cov tuam txhab lub sih hawm kawm. Xhua hnh nbhuv tawm tej sih hawm los daws teeb meem, kev xav tseem ceeb, thiab kev tsim yam tshiab. Los ntawm peb cov chav kawm tshwj xeeb “INCubatoredu” neeg ua lag luam, rau peb cov chaw txuj ci siab tsih koom tes nrog Geekwise Academy, rau peb qhov AP Captone tau pom zoo tshiab uas muab tej tub kawm ntawv ib qho kev kawm tiav, peb qhib muaj tej chav kawm npaj rau tub kawm ntawv tej kev tshwm sim txaus qhhas. Feem ntaw ntawm cov chav kawm no yuav nhiav tsis muaj nyob rau qhov twg hauv lub Loos Tiaj.

Tej Kev Kawm

- Neeg Ua Lag Luam: Tshua tus tub kawm ntawv kawm chav “Business Startup Incubator” thiab chav “Business Startup Accelerator”. Los ntawm cov chav kawm no, tej tub kawm ntawv kawm qhov kev taug ua Txawb Pab Kev Pib, npaj ib lub lag luam, thau nyiaj los piv, thiab piv ib lub lag luam lub sih hawm lawv kawm xyooy kaum ob.

- Mini MBA: Tej tub kawm ntawv nws xav los kawm ntau ntxiv txog lag luam muaj peev xwm muaj feem ntawm peb qhov kev kawm Mini MBA (Master’s in Business Administration). Cov tub kawm ntawv tau kev txawj kev kawm tsev kawm ntawv qib siab los ntawm AP Capstone kev kawm tshiab. Cov chav AP Seminar thiab AP ua rau tej tub kawm ntawv los tsih muaj ib qho kev tshwb nhiav “thesis-like” ua ntsees rau qhov kev kawm ntawm tej lag luam tiag tiag.


2000 E. CAMBRIDGE AVENUE
FRESNO, CA 93703
(559) 248-7360

STUDENT POPULATION
500

GRADES
10 - 12

SCHOOL TYPE
Magnet with Pathway Programs

Learn more at go.fresnou.org/patino

2016–2017 HIGH SCHOOL COURSE GUIDE
Roosevelt High School

Hwj Tsam Los Ci Ntsa
Roosevelt yog hauv paus tsev kawm ntawv lub tsev kawm ntawv them siab thij peb uas qub tshaj plaws, ntxaum puv npo tej kev lis kev cai thiab tej qub txeeq qub teg qub uas tseem muaj niaj hnuh no. Kev txhawb pab tub kawm ntawv yog tus yawm sij rau kev kawm tau. Kev txhawb los ntawm tej xib fwb, tej neeg khaiv dej num, thiab tej niam txiv, tiam sis kuj tseem muaj los ntawm tej neeg zej zog, tej kws qhauab ntauas, tej neeg tuaj yeem pab dawb, thiab qhov tseem ceeb tshaj plaws, tej tub kawm ntawv muaj tib hom kev ntxim siab thiab hom phiaj, uas ua rau lub tsev kawm ntawv them siab zoo tshaj plaws.

Ib qho keeb kwv vaj loog kawm puv npo suab paj nruag nrov nrog fuab nrog cuaj los ntawm tej kis tsej. Tiej xib wb cog lus los pab koj kom koj kev txawj nts loj hlob. Nov yov Tsev Kawn Ntawv Theem Siab Roosevelt. Txawm tias koj muaj suab paj nruag, tsim khoom, yeeb yam, los yog tej kev ua ki las hauv koj tej ntshaw, los koj yuav pom muaj sij hawm qhib tsis muaj nrím los ci nyob rau hauv Roosevelt. Peb lub hom phiay yog los pab koj kawm kom tau txuj ci, ki las thiab/los yog kev kawm koj xaiv los ntsuam xyuas koj kev ua dua los uab tis neeg paub txhua yam nws ntau tshaj ntawm kev uan neej.

Txoj Kev & Tej Kev Kawm

• **Dej Num hauv Kev Kawm Txuj Ci** : ib qho *Kev Txuas Kev Kawm* uas qhib muaj lub sij hawm kawm lub neej txuj ci tiag tiag uas cia tej tub kawm ntawv tau kawm los ntawm kev ua hauj lwm muaj qab hau xam nrog rau tej kev ua hauj lwm dawb, kev ua hauj lwm, thiab/los yog npaj muaj nyob hauv tsev kawm ntawv.

• **Kev Noj Qab Nyob Huv** : ib qho *Kev Txuas Kev Kawm* nrog rau kev pab los ntawm peb cov lag luam koom tes, Community Regional Medical Center, peb npaj muaj sij hawm rau cov tub kawm ntawv los kawm lub neej tiag ntawm kev tu mob nkeeg nyob rau Theem ib Hoo Maum Kho Rang Mob hauv San Joaquin Valley.

• **Txuj Ci Lag Luam** : ib ib tug koom tes nrog IRS thiab RHS thiab npaj tej tub kawm ntawv muaj kev txawj ntsi thiab muaj kev txawj rau kev kawm tau hauv college thiab kev ua dej num hauv ib qho kev xaiq dej num.

• **Roosevelt School of the Arts** : RSA cov tub kawm ntawv muaj lub cib fim los tau txais kev cob qha ntxaws ntxo tsjw xeel rau kev ua yeed yam, ua duab, thiab duab hluab taws xob los ntawm tej neeg paub dej num. Kev xaiq ntawm cov chav kawm kev ua yeed yam (seev cev, yeeb yam, hu nkaaj thiab ntau suab paj nruag), kos duab (kos duab, puab duab, tsim zam, hnuas hneev duab) thiab duab sib txuas lus hluab taws xob (animation, multimedia, graphic arts, video production).

---

**4250 E. TULARE STREET**  
FRESNO, CA 93702  
(559) 253-5200

**STUDENT POPULATION**  
2,100

**GRADES**  
9 - 12

**SCHOOL TYPE**  
Traditional School with Pathway Programs and a Performing Arts Magnet School

Learn more at [go.fresnou.org/roosevelt](http://go.fresnou.org/roosevelt)
Sunnyside High School

Qhov Chaw Uas Txhua Tus Xav Kom Koj Kawm Tau
Nyob hauv tsev kawm ntawv Sunnyside, nws muaj ntau tshaj li 60 lub koom haum uas yuav ua kom koj zoo li nyob hauv tsev nrog ib yam rau txhua tus: muaj kev kawm ntawv nyuaj. Tej dej num ib cag sab nraum, ib pawg tub kawm ntawv ntau haiv, thiaib tej xib fwb zoo heev ua yuav pab kom koj kawm tau koj tej hom phiaj.


Txoj Kev & Tej Kev Kawm
- Agriscience & Technology: ib qho Kev Txesas Kev Kawm uas tseem npaj muaj tej kev txawj ua dej num tseem ceeb los ntawm txuj siab thiaib ntsuam xyuas kev kawm txuj ci, thiaib tus kheej kev ntaus thawj qhia muaj hauv kev ua qoob ub lao thiab txuj ci siab.
- Human Services & Health: ib qho Kev Txesas Kev Kawm as qhib muaj sij hawm rau tub kawm ntawv muaj kev txawj thiaib ua dua hauv seem tej kev pab tib neeg, kev kawm txuj ci, kev noj qab nyob huv, thiaib tshuaj. Tej tub kawm ntawv yuav muaj kev koom tes ncaj nraim rau thiaib kev nqis tes qhia, thiaib lub neej tiag tiag thiaib tej kev nthuav qhia los ntawm tej neeg paub dej num.
  + Teacher Academy
  - Multimedia & Marketing: ib qho Kev Txesas Kev Kawm ua txhuaj xyuas tej kev siv ntau yam txuj ci video thiaib print rau ntau yam kev ua lom zem thiaib seem kev sib pauv lag luam. Tej tub kawm ntawv yuav tau txais kev nqis tes kawm kiag raug tej hauj lwm tom ntej tom qab, tam sim no thiab tej txuj siab tshiab, thiaib kev tsim yam tshiab.
  + Txuj Ci Ua Yeeb Yaj Duab

Learn more at go.fresnou.org/sunnyside

1019 S. PEACH AVENUE
FRESNO, CA 93727
(559) 253-6700

STUDENT POPULATION
2,850

GRADES
9 - 12

SCHOOL TYPE
Traditional School with Pathway Programs
## EDUCATIONAL PLANNING GUIDE

### GRADE 8

<table>
<thead>
<tr>
<th>Core Subject</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Other Than English</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

### GRADE 9

<table>
<thead>
<tr>
<th>Core Subject</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>History/Social Science</td>
<td></td>
</tr>
<tr>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>Elective (VPA) (LOTE)</td>
<td></td>
</tr>
<tr>
<td>Alternative Course (CTE)</td>
<td></td>
</tr>
</tbody>
</table>

### GRADE 10

<table>
<thead>
<tr>
<th>Core Subject</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>History/Social Science</td>
<td></td>
</tr>
<tr>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>Elective (VPA) (LOTE)</td>
<td></td>
</tr>
<tr>
<td>Alternative Course (CTE)</td>
<td></td>
</tr>
</tbody>
</table>

### GRADE 11

<table>
<thead>
<tr>
<th>Core Subject</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>History/Social Science</td>
<td></td>
</tr>
<tr>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>Elective (VPA) (LOTE)</td>
<td></td>
</tr>
<tr>
<td>Alternative Course (CTE)</td>
<td></td>
</tr>
</tbody>
</table>

### GRADE 12

<table>
<thead>
<tr>
<th>Core Subject</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>History/Social Science</td>
<td></td>
</tr>
<tr>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>Elective (VPA) (LOTE)</td>
<td></td>
</tr>
<tr>
<td>Alternative Course (CTE)</td>
<td></td>
</tr>
</tbody>
</table>
Multiple Parents Can Register Following These Easy Steps

1. FIND YOUR EDUTEXT PARENT PIN NOTED ON YOUR CHILD’S:
   - Progress report
   - Report card
   - ATLAS Parent Portal

2. TEXT YOUR EDUTEXT PARENT PIN TO:
   28527 (ATLAS)

REGISTRATION IS AUTOMATIC AND PARENTS WILL BEGIN SEEING GRADE AND ATTENDANCE MESSAGES BY THE FOLLOWING SCHOOL DAY. FAMILIES WITH MULTIPLE FRESNO UNIFIED STUDENTS WILL NEED TO TEXT EACH OF THEIR PARENT PINS SEPARATELY TO 28527 (ATLAS).