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# Heritage High School

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## **COURSE CATALOG 2026-2027**

Heritage High School  
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(925) 634-0037

[www.luhsd.net/heritage](http://www.luhsd.net/heritage)

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# Introduction

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**Casey Lewis, *Principal***

**SLC – A**

**Samir Noor, *Assistant Principal***  
**Kayla Morgan, *Counselor (A1)***  
**Jenna Aure (Tioseco), *Counselor (A2)***

**SLC – B**

**Samantha Dumenigo, *Assistant Principal***  
**David Campos, *Counselor***

**SLC – C**

**Chris Holland, *Assistant Principal***  
**Sandra Roman, *Counselor***

**SLC – D**

**Chris Lonaker, *Assistant Principal***  
**Jackeline Munoz, *Counselor***

**Athletics**

**Nate Smith, *Athletic Director***

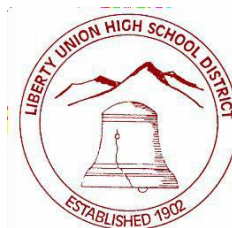
**Student Leadership**

**Jessica Banchieri, *Student Activities Director***

**College & Career Center**

**Michael Gomar, *College & Career Center Coordinator***

**Liberty Union High School District**



**Denise Rugani** ..... *District Superintendent*

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## Mission Statement

Heritage High School is dedicated to empowering students to become life-long learners, committed to Honesty, Equality, Respect, Integrity, Trust, Achievement, Generosity and Excellence. All classrooms will provide a student-centered, rigorous, relevant, and innovative standards-based curriculum developed in a professional learning community. We are committed to prepare our students to be productive citizens in a global community using career academies, enhanced extracurricular activities, and instructional technology.

## Vision Statement

Heritage High School will create an effective cross-curricular professional learning community to promote the mastery of the common core standards. Through collaboration, reflection and analysis of student learning, our PLC will ensure students achieve their academic potential in preparation for college and careers. Staff members, students and parents will create a safe and supportive environment in which all students become productive life-long learners that impact the community in a positive way.

### **Academic Standards:**

#### School Wide Learner Outcomes

Students will demonstrate academic proficiency by meeting the common core and state content standards in preparation for their post-secondary endeavors.

### **Research and Technology:**

Students will demonstrate proficiency in using various resources and technology to conduct research, test hypotheses and solve problems.

### **Critical Thinking:**

Students will demonstrate an ability to think critically and creatively, work collaboratively and independently, and take responsibility for their thoughts and actions.

### **Communication:**

Students will develop effective communication skills through critical and reflective reading, writing, speaking, and listening.

### **Citizenship:**

Students will demonstrate an understanding of social responsibility and will respect diversity in the school community and the larger society.

# Heritage High School Class Change Policy

**It is crucial that serious consideration be given to each of the courses a student selects, as student-requested course changes will not be considered in the fall.** Students and parents should consider the expectations of each class requested, especially Advanced Placement (AP) courses, in terms of level of interest, student time and other commitments such as athletics, work, or other out of school activities. The completion of the COURSE REQUEST FORM, when signed by student and parent or guardian, constitutes a contract between student, parent or guardian, and Heritage High School. The master schedule of all classes and teacher assignments, which may include the hiring of teachers to teach those classes, is based on the courses students select in the spring.

## **POLICY FOR DROPPING A CLASS**

A student who drops a course not required for graduation during the first three weeks of the grading period may do so without any entry on his/her permanent record. A student who drops a course after the first three weeks of the grading period shall receive a W/F grade on his/her permanent record, unless otherwise decided by the principal or designee because of extenuating circumstances. This change will only be permitted if the student schedule and master schedule contractual limits permit.

Advanced placement and other course level changes may be done up until the first nine weeks of the semester.

Schedule changes create significant problems for students. The master schedule of classes and the assignment of teachers to teach those classes are based on courses students chose in the spring; therefore, **CHANGES ARE MADE FOR ACADEMIC MISPLACEMENT OR COMPUTER ERROR ONLY.**

Classes are not changed due to teacher preferences. Only when a parent, student, teacher, and administrator are in agreement that a change is in the best interest of a student, will a change be made. In those special cases, the following process will be:

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<b>First</b>	Student/Teacher Conference
<b>Second</b>	Parent/Teacher Conference
<b>Third</b>	Assistant Principal/Student/Teacher Conference Assistant Principal/Student/Parent/Teacher Conference
<b>Fourth</b>	Assistant Principal recommendation for change communicated to Student/Parent/Teacher Parent can appeal decision to Principal

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## The Home as a Learning Center - *Some Tips for Parents*

- Design a home learning environment that is appropriate to your student's learning style.
- Identify the physical space where studying and quiet reading can occur.
- Secure the resources (e.g. paper, pens dictionary, etc.) that your student will need.
- Establish a routine time for homework and special class projects and allow for balanced leisure activities.
- Promote effective time management skills allowing attention to all subjects and planning for long-range projects (presentations, essays).
- Encourage games and leisure time activities that require reasoning, computation, and problem solving skills. Allow your child to participate in building things, fixing things, cooking, and related tasks.
- Monitor television (and Internet) watching and encourage viewing that can complement the education experience.
- Two books some parents have said helped in raising adolescent children...  
Authors:

Jane Nelson & H. Stephen Glenn, "Raising Self Reliant Children in a Self-Indulgent World."

Peter Bensen & Judy Galbraith and Pamela Espeland, "What Kids Need to Succeed: Proven Practical Ways to Raise Good."

# Heritage High School Programs

## **Core Program**

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

## **ROP Program**

Operated by the Contra Costa County Office of Education, the Regional Occupational Program is a primary source of career training for high school students in our county. State certified teachers, high tech equipment and a commitment to students ensure a positive learning experience. Located on high school campuses, ROP courses are part of a student's regular high school schedule. Students complete 90-540 hours of sequenced curriculum and earn high school graduation credits and/or college units. Students can earn Certificates of Proficiency. For more information, go to [www.cocoschools.org/rop](http://www.cocoschools.org/rop). Students can use ROP courses to gain employment skills, explore a career field, get a head start on their college major, or "try out" a career choice through internships available in many classes. Many students use their newly acquired skills to work part-time after graduation to help pay college expenses.

## **English Learners Program**

The goal of the English Learners (EL) program is to help non-English speaking students to acquire fluency as quickly as possible. To that end, students are placed in English Language support classes. With proper effort on their part, a student can usually move from level to level in one-half year. While they are at the beginning stages of acquiring English, every effort is made to place them in elective and required courses that provide a reasonable opportunity for success.

A counselor schedules the students identified as early level English Learners into classes. The structure of these classes is carefully planned for the rapid acquisition of English as well as a smooth transition into an American high school.

In addition, a group of Heritage staff (EL Support Team) work together as a personal liaison with many of our non-English speaking families. It is hoped that this personal connection will encourage and improve the participation of these families with the school.

## **Special Education Program**

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

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

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

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

### **Advanced Placement (AP) Courses**

Advanced Placement courses give students the opportunity to take college level courses in a high school setting. AP courses also prepare students to take specific AP examinations which can earn them college credits. A grade of 3, 4, or 5 on the AP exam could earn college credits depending on each individual college's rules and requirements. AP courses also grant an extra grade point with a "C" grade or better in the class. The Liberty Union High School District has an open enrollment policy for its AP courses, meaning they are open to all highly motivated students. However, be aware that there is a great deal of outside reading, writing, and studying in addition to the work done in class. If you are interested in taking AP classes please discuss the matter with your parents, school counselor, and the teacher of the AP classes which interest you.

### **Dual Enrollment Program**

- Earn college credits while still in high school
- Save time and money - Dual Enrollment courses are free
- Classes taught on your high school campus
- Taught by teachers who meet the minimum qualifications at the community college level
- Complete a college degree or certification at an accelerated rate
- Get a head start on a great GPA
- Use LMC free resources - Library, tutoring, counseling, career and transfer services and more
- Credits are transferable to most colleges and universities
- Results in a permanent college transcript

This head-start on a college education can significantly improve your chances of graduating from college with a certificate, degree or ready to transfer to another accredited institution of higher learning.

# Graduation Requirements for HHS / LUHSD

*Note:* the following requirements must be met to receive a diploma from the Liberty Union High School District.

<b>Course Requirements</b> (10 Credits = 1 year)		
<b>Course</b>		<b>Credits</b>
English	Students must pass English 9, 10, 11 and 12	40
Social Science	One year of World History (10 <sup>th</sup> ) One year of U.S. History (11 <sup>th</sup> ) One semester of American Government (12 <sup>th</sup> ) One semester of Economics (12 <sup>th</sup> )	30
Mathematics	Students must pass three years of mathematics with completion of Algebra 1 and Geometry	30
Science	One year of Life Science One year of Physical Science	20
Fine Arts <b>OR</b> World Language	1 year	10
Physical Education	One year of 9 <sup>th</sup> grade P.E. One year of 10 <sup>th</sup> grade P.E. *10 <sup>th</sup> grade PE waiver does <b>not</b> waive graduation credit count	20
Ethnic Studies	Students must take one semester of ethnic studies	5
Health	Students must take one semester of health education	5
Electives		110
Total number of credits required for graduation		270

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

### COMMUNITY COLLEGE CREDITS

Students may choose to enroll in a community college course. Community college coursework may be transferred for elective credits. Transfer credit: 1 college unit = 3.3 high school credits. A maximum of 60 high school credits can be accepted.

The Following is a SAMPLE four-year course sequence that meets/exceeds both the requirements for HHS/LUHSD graduation and for college admission:

<b>9th Grade Courses</b>	
<b>DAY "A"</b>	<b>DAY "B"</b>
1) English 9	5) Algebra 1
2) World Language 1	6) Living Earth (Biology)
3) Health/Semester Elective	7) Physical Education
4) Study Hall	8) Elective

<b>10th Grade Courses</b>	
<b>DAY "A"</b>	<b>DAY "B"</b>
1) English 10	1) Geometry
2) World History	2) Chemistry in the Earth System
3) World Language 2	3) Physical Education
4) Study Hall	4) Elective (From "g" on "a-g" list)

<b>11th Grade Courses</b>	
<b>DAY "A"</b>	<b>DAY "B"</b>
1) English 11	5) Algebra 2
2) U.S. History	6) Physics in the Universe
3) World Language 3	7) Visual and Performing Arts Elective (from "F" on "a-g" list)
4) Elective (From "g" on "a-g" list)	8) Unscheduled Period

<b>12th Grade Courses</b>	
<b>DAY "A"</b>	<b>DAY "B"</b>
1) English 12	5) Pre-Calculus
2) Economics/American Government	6) Lab Science
3) Elective (From "g" on "a-g" list)	7) Elective (From "g" on "a-g" list)
4) Unscheduled Period	8) Unscheduled Period

\* UC recommends exceeding minimum entrance requirements.

\* Advanced Placement classes are encouraged if student is eligible to take them.

\* Refer to *UC – CSU Comparison of Minimum Eligibility Requirements* for complete UC/CSU entrance requirements and recommendations

# Heritage High School 4 – Year Planning Sheet

**NAME:**

**ID#**

**CLASS OF:**

Grade	Required Courses	Student Courses	Grades	Credits	Graduation / Future Goals Checklist
<b>9</b>  (70 cr)	English 9	English 9			Post High School Goals:
	Math				
	Science	Living Earth			Supporting Activities: (9-12)
	Physical Education	PE 9			
	Health	Health			
	Elective				
	Elective				
	Elective				
Summer School					Total Credits to Date:
Grade	Required Courses	Student Courses	Grades	Credits	Graduation/ Future Goals Checklist
<b>10</b>  (140 cr)	English 10	English 10			Post High School Goals:
	Math				
	World History	World History			Make Appt. with Career Center
	Science	Chemistry in the Earth System			
	Physical Education	PE 10			CSU Mentor
	World Lang./Fine Art				
	Elective				Spring PSAT 10
	Elective				
Summer School					Total Credits to Date:
Grade	Required Courses	Student Courses	Grades	Credits	Graduation/ Future Goals Checklist
<b>11</b>  (210 cr)	English 11	English 11			Post High School Goals:
	Math				
	U.S. History	U.S. History			Make Appt. with Career Center
	Science/ Elective				Fall PSAT/NMSQT
	Elective				ACT
	Elective				SAT Reasoning
	Elective				
	Elective				
Summer School					Total Credits to Date:
Grade	Required Courses	Student Courses	Grades	Credits	Graduation/ Future Goals Checklist
<b>12</b>  (270 cr)	English 12	English 12			Post High School Goals:
	Amer.Govt / Econ.	Govt/ Econ			
	Math/ Elective				
	Science/ Elective				College Bound:
	Elective				ACT
	Elective				SAT Reasoning
	Elective				
	Elective				Community Service: 20 hours
Summer School					Total Credits to Date:

# CSU – UC Comparison of Minimum Freshman Admission Requirements

California State University (CSU)	University of California (UC)
<b>HIGH SCHOOL GPA</b>	
Calculate GPA using only “a-g” approved courses taken <i>after</i> the 9th grade, including summer courses. All “a-g” courses and grades must be reported.	
<b>SUBJECT REQUIREMENTS</b>	
<b>Fifteen yearlong college preparatory courses from approved “a-g” list are required:</b>	
	11 UC-required college preparatory (“a-g”) courses must be completed prior to senior year (including summer courses)
<b>“a”   History/Social Science</b>	<b>Two years of history/social science</b> (including one year of U.S. history OR one semester of U.S. history and one semester of civics or American government AND one year of social science)
<b>“b”   English</b>	<b>Four years of college preparatory English composition/literature</b> (including no more than one year of Advanced ELD courses)
<b>“c”   Mathematics</b>	<b>Three years of mathematics</b> (algebra I and II, geometry); <b>four years recommended*</b>
<b>“d”   Laboratory Science</b>	<b>Two years of laboratory science</b> (including one biological science and one physical science that provides fundamental knowledge from two of these three subjects: Living Earth, Chemistry in the Earth System or Physics in the Universe)
<b>“e”   Language Other Than English</b>	<b>Two years of language other than English</b> (*must be the same language, American Sign Language accepted)
	Three years recommended
<b>“f”   Visual and Performing Arts</b>	<b>One year-long course in visual and performing arts</b> (selected from dance, music, theatre/drama and visual arts)
<b>“g”   College Preparatory Elective</b>	<b>One year of an elective chosen from any area on approved “a-g” course list</b>
Note: Numerous Career Technical Education courses are approved for fulfillment of “a-g” subject requirements.	
<b>HONOR POINTS</b>	
Maximum of eight extra grade points awarded for approved honors, Advanced Placement or International Baccalaureate courses and transferable college courses. No more than two yearlong courses taken in 10th grade can earn honors points.	

*\*High school-level coursework completed in 7th and/or 8th grade can be used to meet the area C and/or E requirements.*

California State University (CSU)	University of California (UC)	
<b>VALIDATION OF SUBJECT REQUIREMENTS BY OTHER COURSES</b>		
Mathematics	<p>A letter grade of C or better in the second semester of Geometry will validate the first semester. A letter grade of C or better in the first semester of Algebra II validates both semesters of Algebra I. A letter grade of C or better in Statistics will validate Algebra I and Algebra II, but will not validate Geometry.</p> <p>Integrated style Math 2 will be accepted in lieu of a Geometry course.</p>	
	<p>A letter grade of C or better in the second semester of an area C course with a discipline of Advanced Mathematics on the <a href="#">A-G website</a> validates the entire high school college preparatory requirement.</p> <p>A letter grade of C or better in Integrated style Math 3 which includes geometry content validates the omission of Integrated style Math 2.</p>	<p>The omission of a full year of geometry cannot be validated by any higher-level coursework.</p> <p>A letter grade of C or better in Integrated style Math 3 which includes geometry content validates the omission of Integrated style Math 2.</p> <p>Refer to UC's Validation Matrix in <a href="#">Quick Reference Guide to UC Admissions</a>.</p>
Language Other Than English (LOTE)	<p>A letter grade of C or better in a semester of a higher-level course validates a lower-level course. A higher-level LOTE course can validate the appropriate number of years based on the level. A college course can validate high school LOTE courses. The level of validation depends on the college course prerequisite and description. For courses offered at a California Community College refer to ASSIST and look for the footnote indicating the course is equivalent to two years of high school instruction.</p>	
Chemistry in the Earth System	<p>A grade of C or better in the second semester of Chemistry <u>will</u> validate the first semester.</p>	<p>UC does not allow validation of Chemistry.</p>
<b>VALIDATION OF DEFICIENT D/F GRADES IN REQUIRED COURSES</b>		
<p>Required "a-g" courses must be completed with a grade of C or better. Courses in which grades of D/F are earned must be repeated, EXCEPT in the areas of math and language other than English, where grades of D/F can be validated by successful completion of higher-level coursework.</p>		
<b>VALIDATION OF SUBJECT REQUIREMENTS BY TEST SCORES</b>		
<p>Required A-G courses may be satisfied with appropriate test scores on SAT, SAT Subject Tests, Advanced Placement exams, and designated International Baccalaureate exams. A list of acceptable tests and scores is available on the CSU website; for UC, refer to <a href="#">Quick Reference Guide to UC Admissions</a>. For UC, the omission of a course in Geometry cannot be validated by any examination score.</p>		
<b>HIGH SCHOOL GPA</b>		
<p>Calculate GPA using all A-G approved courses completed during the summer after the 9th grade through summer after the 11th grade---excluding deficient grades which have been repeated. CSU and UC do not use plus/minus grades in the GPA calculation; for example, a C- = C.</p>		

<p>Repeated courses are calculated once using the highest grade earned. When completing the online admission application, the repeated course is also only reported once using the highest grade earned.</p>	<p>Repeated courses are calculated once using the first instance of a letter grade of C, B, or A. UC does not average grades. However, when completing the UC admission application, all A-G courses and grades must be reported.</p>
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<p><b>TEST SCORES – ACT/SAT</b></p>		
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<p>ACT or SAT Reasoning</p>	<p>Applicants to CSU are not required to submit ACT or SAT scores. The UC/CSU will no longer require the use of ACT/SAT examinations for admission purposes.</p>	
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The following courses meet requirements (a-g) for admission to the University of California & California State University.

**a-History/Social Science - 2 years**

- a**
- |                              |               |
|------------------------------|---------------|
| American Government          | U.S. History  |
| AP Human Geography*          | World History |
| AP U.S. History*             |               |
| AP US Government & Politics* |               |
| AP World History*            |               |

**b - English - 4 years required**

- b**
- AP English Language and Composition\*
  - AP English Literature and Composition\*
  - AP Seminar\*
  - English 9, 10, 11, 12

**c - Mathematics - 3 years required (4 years recommended)**

- c**
- |                        |                        |              |
|------------------------|------------------------|--------------|
| Algebra 1, 2           | AP Pre-Calculus*       | Statistics   |
| Algebra 2/Pre-Calculus | AP Statistics *        | Pre-Calculus |
| AP Calculus AB*        | Financial Algebra      |              |
| AP Calculus BC*        | Geometry               |              |
| AP Computer Science A  | AP Computer Science A* |              |

**d- Laboratory Science - 2 years required (3 years recommended for UC)**

- d**
- |                           |                               |                     |
|---------------------------|-------------------------------|---------------------|
| Anatomy & Physiology      | Biotechnology 1, 2            | ROP Sports Medicine |
| AP Biology*               | Chemistry in the Earth System |                     |
| AP Chemistry*             | Entomology                    |                     |
| AP Environmental Science* | Living Earth                  |                     |
| AP Physics 1*             | Physics in the Universe       |                     |

**e - Language other than English - 2 years required (3 years recommended for UC)**

- e**
- AP Spanish Language & Culture\*
  - French 1, 2, 3 & 4
  - Spanish 1, 2, 3 & 4
  - Spanish for Spanish Speakers 2

**f- Visual & Performing Arts - 1 year required**

- f**
- |                             |                       |                           |
|-----------------------------|-----------------------|---------------------------|
| Acting & Directing Workshop | Ceramics 1, 2         | Orchestra                 |
| Advanced Art                | Concert Band          | ROP Adv. Video Production |
| AP Art History *            | Concert Choir         | ROP Publications          |
| AP Studio Art: 2-D Design * | Design 1, 2           | Select Singers            |
| AP Studio Art: 3-D Design*  | Intermediate Art      | Symphonic Band            |
| AP Studio Art: Drawing *    | Intro. to Art History | Theatre Arts 1, 2, & 3    |
| Art of Video Production     | Jazz Band Advanced    | Women's Chorus            |
| Beginning Art               | Jazz Band Beginning   |                           |
| Beginning Ukulele           | Men's Chorus          |                           |

**g - Elective - 1 year required**

- g**
- |                                    |   |  |
|------------------------------------|---|--|
| Air Force JROTC 1,2,3,4 & Honors   | Exploring Computer Science                | PUSH                                       |
| Adv. Percussion Ensemble           | Foundations of Law, Govt & Public Service | ROP Adv. Sports medicine                   |
| African American Studies           | Health                                    | ROP Digital Recording                      |
| AP Cyber1-Networking Fundamentals* | Health Career Core                        | ROP Journalism Sports Management Sociology |
| AP Macroeconomics*                 | Jazz Band Intermediate                    | ROP Law Enforcement                        |
| AP Psychology*                     | Journalism                                | ROP Robotics Engineering Tech              |
| AP Research*                       | Link Crew 1                               | Sports Medicine                            |
| Child Development                  | Literary Analysis through Film            | Sociology                                  |
| Computer Programming               | Mock Trials, Moot Courts & Trial Advocacy | Speech and Debate 1, 2                     |
| Computer Service Repair 1          | Music Theory & Technology                 | Sports Broadcasting                        |
| Creative Writing                   | Percussion Ensemble                       | Sports Management                          |
| Culinary Arts 1 & 2                | PLUS Leadership                           | Student Leadership                         |
| Economics                          | Psychology within Society                 | Teaching & Learning Careers Internship     |
| Ethic Studies                      | Publications                              | Women's Studies                            |

\* denotes courses that have been approved for extra honors credit; a=5, b=4, c=3

# NCAA Core Course List

Link to the NCAA approval list website – <https://web1.ncaa.org/hsportal/exec/hsAction>

## English

AP Language & Composition  
AP Literature & Composition  
AP Seminar  
AP Research  
Creative Writing  
English 9, 10, 11, 12  
Journalism

## Social Science

African American History  
American Government  
AP Economics Macro  
AP Human Geography  
AP Psychology  
AP US Government & Politics  
AP US History  
AP World History  
Child Develop  
Competitive Speech and Debate  
Economics  
Ethnic Studies  
Law/Govt/Public Service  
Mock Trial & Moot Courts  
Psychology within Society  
Sociology  
Speech & Debate (1 cr w/other Spch/Deb)  
US History  
World History  
Women's studies

## Mathematics

Algebra 1  
Algebra 2  
Algebra 2/Pre-Calc  
AP Pre-Calc  
AP Calculus AB  
AP Calculus BC  
AP Computer Science  
AP Statistics  
Computer Programming  
Financial Algebra  
Geometry  
Intensified Algebra  
Pre-Calculus  
Statistics

## Natural/Physical Science

Anatomy & Physiology  
AP Biology  
AP Chemistry  
AP Environmental  
AP Physics  
AP Physics 2  
Biotechnology I  
Biotechnology II  
Chemistry in the Earth System  
Entomology  
Exploring Computer Science  
Living Earth  
Physics in the Universe  
Robotics  
Robotics 2

## Additional Core Courses

AP Spanish Language  
French 1, 2, 3, 4  
Spanish 1, 2, 3, 4

**Legal Disclaimer:** The list of NCAA courses, and courses contained within, are maintained as a guide for prospective student-athletes seeking NCAA initial-eligibility. The list of approved courses does not, nor is intended to, signify accreditation, certification, approval or endorsement of any high school or specific courses by the NCAA or NCAA Eligibility Center and is subject to change at any time and without notice. Core course information included on this website is provided for guidance purposes only and should not be solely relied on as an indication of NCAA initial-eligibility. Certification of a prospective student-athlete is case-specific, and the Eligibility Center has the authority to determine in its sole discretion whether the prospective student-athlete has met all criteria.

1. **Minimum GPA:** The minimum core GPA for incoming college freshmen is 2.30. Student-athletes who graduate with a core GPA between 2.00 and 2.29 can still receive an athletic scholarship and practice with their teams, but cannot participate in game action as freshmen. A higher SAT/ACT sliding scale is expected to be released soon.
2. **10 Core Courses by Junior Year:** Student-athletes will need to complete at least 10 of the 16 core course requirements by the end of their junior year.

# Academy, Career and Technical Education (CTE) Pathways

## **Academy Program**

There are currently four academies at HHS, each with a particular focus and career paths defined by majors. A major consists of a series of related courses within a career orientation. Enrollment in an academy is voluntary for students. The goal is to provide the student, at the completion of the academy program, the option of entering the job market, enrolling at a community college or technical school, or pursuing collegiate studies with a clearly articulated academic background in a particular area. Students who complete an academy program are honored at graduation with a medallion.

Students are encouraged to explore our academy offerings and join the academy that best fits their personal interests and post-high school goals. Students are encouraged to explore and learn about our academy offerings as freshmen and then join an academy during their sophomore or junior year, if they choose to do so. More academy information can be found on the following pages for our four academies: Health; Technology; Arts and Entrepreneurial; and Public Services. These consist of a strand of elective courses to support the student with their post-secondary goals. These pathways are optional. Students may enroll in these elective courses regardless if they “join” an academy.

Your high school is committed to providing many pathways and options which will help you plan and prepare for your future after graduation. Our academy programs are designed around broad career interests to fit your personal educational needs and goals, whether you are planning to enroll in college, enter technical training, or take your place in the world of work after you leave Heritage.

The purpose of our academies is to prepare you for future success and make school more meaningful. By choosing an academy related to your interests, you will be able to complete an academic program which is related to the world outside of school. An academy will also connect you to a small “family” of students and teachers.

## **CTE Pathways**

Prepare for your future career today! Complete one of the following CTE Pathways. This will prepare you for college and your career. Complete a minimum of 20 credits with a C or better in one of the following pathways (one must be a Capstone course) to earn a CTE Pathway medal to be worn at graduation. Please see the course catalog for course descriptions and prerequisites.

# Health Academy

## Academy Overview:

The Health Academy will provide a program of study for students who are interested in learning about careers in areas involving health sciences. The Health Academy will provide students with the foundation to pursue careers in fields where they can enhance people's lives, improve the health of families and neighbors, and strengthen the social fabric of the community.

## Academy Pathways:

*The Health Science Pathways relates to careers including nursing, medical and veterinary doctors, and other medical fields. An estimated 20% of all jobs in the next decade will be in the health field.*

- Patient Care Pathway
- Biotechnology Pathway

## Academy Certification:

Students will receive a graduation medallion for completing the required coursework for an academy pathway.

### Health Science and Medical Technology *Patient Care Pathway*

#### **Required courses:**

- Advanced Sports Med
- Sports Med

#### **Plus 30 credits from the following:**

- Anatomy/Physiology
- AP Biology
- AP Chemistry
- AP Physics/Physics
- AP Psychology/Psychology
- Biotechnology 1
- Biotechnology 2
- Health Careers Core
- Sociology
- Sports Management

### Health Science and Medical Technology *Biotechnology Pathway*

#### **Required courses:**

- Biotechnology 1
- Biotechnology 2

#### **Plus 30 credits from the following:**

- Anatomy/Physiology
- AP Biology
- AP Pre Calculus
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Environmental Science
- AP Physics/Physics
- Health Careers Core
- Speech & Debate/Comp. Speech & Debate

All Academy students are recommended (though not required) to take Academy Internship during their senior year. See Academy Coordinator for details.

# Technology Academy

## Academy Overview:

The Technology Academy provides a program of study for students who are interested in engineering, software and computer technology.

## Academy Industry Sectors and Pathways:

*The Engineering Pathways were devised for students with an interest in mechanical engineering and/or robotics.*

- Engineering and Architecture Industry Sector – Engineering Technology Pathway

*The route of Information and Communication Technologies Industry Sector was designed for students interested in computer programming, repair, system management and related fields.*

- Information and Communication Technologies Industry Sector –Information Support and Services Pathway
- Information and Communication Technologies Industry Sector- Software and Systems Development Pathway

## Academy Certification:

Students will receive a graduation medallion for completing the required coursework for an academy pathway.

Engineering and Architecture, I <i>Engineering Technology Pathway</i>	Information & Communication Technologies <i>Information Support &amp; Services Pathway</i>	Information & Communication Technologies <i>Software and Systems Development Pathway</i>	Information & Communication Technologies <i>Networking Pathway</i>
<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ROP Robotics Engineering</li> <li><input type="checkbox"/> Robotics Eng. II</li> </ul> <p><b>Plus 30 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Calculus AB</li> <li><input type="checkbox"/> AP Computer Science A</li> <li><input type="checkbox"/> AP Physics/Physics</li> <li><input type="checkbox"/> AP Statistics/Statistics</li> <li><input type="checkbox"/> Computer Programming</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Comp. Service/Repair I</li> <li><input type="checkbox"/> Comp. Service/Repair II</li> <li><input type="checkbox"/> Exploring Computer Science</li> </ul> <p><b>Plus 20 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Computer Science A</li> <li><input type="checkbox"/> AP Physics/Physics</li> <li><input type="checkbox"/> ROP Robotics Engineering</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Computer Science A</li> <li><input type="checkbox"/> Computer Programming</li> <li><input type="checkbox"/> Exploring Computer Science</li> </ul> <p><b>Plus 20 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Calculus AB</li> <li><input type="checkbox"/> AP Calculus BC</li> <li><input type="checkbox"/> Comp. Service and Repair I</li> <li><input type="checkbox"/> Comp. Service and Repair II</li> <li><input type="checkbox"/> ROP Robotics Engineering</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Comp. Service and Repair I</li> <li><input type="checkbox"/> AP Networking (Cyber 1)</li> <li><input type="checkbox"/> AP Adv. Networking (Cyber 2)</li> </ul> <p><b>Plus 20 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Computer Science A</li> <li><input type="checkbox"/> Comp. Service and Repair II</li> <li><input type="checkbox"/> Computer Programming</li> </ul>

All academy students are recommended (though not required) to take Academy Internship during their senior year. See Academy Coordinator for details.

# Arts and Entrepreneurial Academy

## Academy Overview:

The Arts and Entrepreneurial Academy gives students the opportunity to explore functional design as well as aesthetics.

## Academy Industry Sectors and Pathways:

*The Business and Arts/Media Pathways were developed for students who are interested in the digital arts, video, web design and how these technologies can be used to further an art or business career.*

- Business and Finance Industry Sector - Business Management Pathway
- Arts, Media, and Entertainment Industry Sector - Design, Media, and Visual Arts Pathway
- Arts, Media, and Entertainment Industry Sector - Production and Managerial Arts Pathway (Video)
- Arts, Media, and Entertainment Sector - Visual/Commercial Art Pathway

## Academy Certification:

Students will receive a graduation medallion for completing the required coursework for an academy pathway.

<b>Business and Finance Business Management Pathway</b>	<b>Arts, Media, and Entertainment Design, Visual, and Media Arts Pathway</b>	<b>Arts, Media, and Entertainment Production and Managerial Arts Pathway (Video)</b>	<b>Arts, Media, and Entertainment Visual/Commercial Art Pathway</b>	<b>Arts, Media, and Entertainment Music Production Pathway</b>
<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Business Communications (<i>semester only</i>)</li> <li><input type="checkbox"/> Business &amp; Personal Finance</li> <li><input type="checkbox"/> Virtual Enterprise</li> </ul> <p><b>Plus 25 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Intro to Mass Media</li> <li><input type="checkbox"/> ROP Adv. Video Productions</li> <li><input type="checkbox"/> Intro to Broadcasting</li> <li><input type="checkbox"/> Microsoft Office (<i>semester only</i>)</li> <li><input type="checkbox"/> AP Statistics/Statistics</li> <li><input type="checkbox"/> Financial Algebra</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design I</li> <li><input type="checkbox"/> Design II</li> </ul> <p><b>Plus 30 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Art History</li> <li><input type="checkbox"/> Intermediate Art</li> <li><input type="checkbox"/> Advanced Art</li> <li><input type="checkbox"/> Ceramics I/II</li> <li><input type="checkbox"/> AP Studio Art 2D/3D</li> <li><input type="checkbox"/> Design III</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Intro to Broadcasting</li> <li><input type="checkbox"/> Art of Video Production</li> <li><input type="checkbox"/> ROP Adv. Video Production</li> </ul> <p><b>Plus 20 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Intro to Mass Media</li> <li><input type="checkbox"/> Literary Analysis of Film</li> <li><input type="checkbox"/> Creative Writing</li> <li><input type="checkbox"/> Psychology</li> <li><input type="checkbox"/> ROP Digital Recording</li> <li><input type="checkbox"/> Screenwriting</li> <li><input type="checkbox"/> Sports Broadcasting</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Intro to Mass Media</li> <li><input type="checkbox"/> ROP Publications</li> </ul> <p><b>Plus 30 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Literary Analysis of Film</li> <li><input type="checkbox"/> ROP Journalism</li> <li><input type="checkbox"/> Creative Writing</li> <li><input type="checkbox"/> Screenwriting</li> <li><input type="checkbox"/> Intro to Broadcasting</li> <li><input type="checkbox"/> Sports Broadcasting</li> <li><input type="checkbox"/> Speech &amp; Debate/Competitive Speech &amp; Debate</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Music Theory and Technology</li> <li><input type="checkbox"/> ROP Digital Recording</li> </ul> <p><b>Plus 30 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Music as Literature</li> <li><input type="checkbox"/> Creative Writing</li> <li><input type="checkbox"/> Jazz 1</li> <li><input type="checkbox"/> Jazz 2</li> <li><input type="checkbox"/> Ukulele</li> <li><input type="checkbox"/> Beg. Percussion</li> <li><input type="checkbox"/> Adv. Percussion</li> <li><input type="checkbox"/> Orchestra</li> <li><input type="checkbox"/> Wind Ensemble</li> <li><input type="checkbox"/> A Cappella Choir</li> <li><input type="checkbox"/> Select Singers</li> </ul>

All academy students are recommended (though not required) to take Academy Internship during their senior year. See counselor or Academy Coordinator for details.

# Public Service Academy

## Academy Overview:

The Public Service Academy comprises course offerings and internships for students interested in subjects ranging from law, police services, civics, leadership, history, child development, education and service to the community.

## Academy Pathways:

*The Public Service Sector and Academy is for students interested in careers in legal fields such as police, attorney, and forensics or in local, state, or federal economics, politics and government, social and civil services, or security careers.*

- Public Service Sector – Legal Practices Pathway

*Education, Child Development, and Family Services Industry Sector is for students interested in careers involving teaching or working with children.*

- Education, Child Development, and Family Services Industry Sector – Child Development Pathway

*The Hospitality, Tourism and Recreation Sector is for students interested in careers involving the foodservice industry.*

- Hospitality, Tourism and Recreation Sector – Food Service and Hospitality Pathway

## Academy Certification:

Students will receive a graduation medallion for completing the required coursework for an academy pathway.

<b>Public Service Legal Practices Pathway</b>	<b>Education, Child Development, and Family Services Education Pathway</b>	<b>Hospitality, Tourism and Recreation Food Service and Hospitality Pathway</b>
<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Foundations of Law, Gov and Public Services</li> <li><input type="checkbox"/> ROP Law Enforcement Careers</li> <li><input type="checkbox"/> Mock Trials, Moot Courts and Trial Advocacy</li> </ul> <p><b>Plus 20 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Language/AP Literature</li> <li><input type="checkbox"/> Air Force JROTC 1,2,3,4 &amp; Honors</li> <li><input type="checkbox"/> AP World History</li> <li><input type="checkbox"/> AP US History</li> <li><input type="checkbox"/> AP Government &amp; US Politics</li> <li><input type="checkbox"/> AP Macro Economics</li> <li><input type="checkbox"/> Child Development</li> <li><input type="checkbox"/> Leadership</li> <li><input type="checkbox"/> AP Psychology/ Psychology</li> <li><input type="checkbox"/> Sociology</li> <li><input type="checkbox"/> Speech &amp; Debate/Competitive Speech &amp; Debate</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Child Development</li> <li><input type="checkbox"/> Teaching &amp; Learning Careers Core (Internship)</li> </ul> <p><b>Plus 30 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Human Geography</li> <li><input type="checkbox"/> AP Psychology/Psychology</li> <li><input type="checkbox"/> Ethnic Studies</li> <li><input type="checkbox"/> Foundations of Law, Gov and Public Services</li> <li><input type="checkbox"/> Link Crew</li> <li><input type="checkbox"/> Sociology</li> <li><input type="checkbox"/> Speech &amp; Debate/Competitive Speech &amp; Debate</li> <li><input type="checkbox"/> Women’s Studies</li> </ul>	<p><b>Required courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Culinary Arts I</li> <li><input type="checkbox"/> Culinary Arts II</li> </ul> <p><b>Plus 30 credits from the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Chemistry</li> <li><input type="checkbox"/> Biotech I</li> <li><input type="checkbox"/> Biotech II</li> <li><input type="checkbox"/> Business Communication</li> <li><input type="checkbox"/> Business/Personal Finance</li> <li><input type="checkbox"/> Design I</li> <li><input type="checkbox"/> Financial Algebra</li> <li><input type="checkbox"/> Foundations of Law Gov and Public Services</li> <li><input type="checkbox"/> MS Office (Semester only)</li> <li><input type="checkbox"/> Virtual Enterprise</li> </ul>

All Academy students are recommended (though not required) to take Academy Internship during their senior year. See Academy Coordinator for details.

# **CAREER TECHNICAL EDUCATION**

## **Academy Internship w/ Industry Partners**

**Course #1090**

*Grade Level:* 12  
*Length:* Year class  
*Prerequisite:* Academy Enrollment  
*Graduation:* Fulfills 10 units of elective credit for graduation  
*College Prep:* Does not apply

*Description:* This course is designed to provide students with practical, on-the-job learning experiences and an opportunity to develop a range of employability skills in real world settings. Students will develop marketable skills, abilities, attitudes, and work habits that will prepare them to enter the work force directly, continue their education with a focus on technical preparation, or pursue advanced study at the college or university level.

The first quarter of instruction is in the classroom; industry partnerships are established for each student and career skills preparation is practiced. The remaining quarter(s) students are assigned to the industry partnership workplace for four hours a week (40 hours) and return to the campus one day a week for seminar instruction.

## **AP Computer Science A**

**Course #4747**

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*Grade Level:* 10-12  
*Length:* Year class  
*Prerequisite:* Geometry (prior programming course recommended)  
*Graduation:* Fulfills math credits  
*College Prep:* Fulfills ("c") requirement for UC/CSU. Student will receive an extra grade point for grades A-C. Articulated for college units in COMSC-122 at Los Medanos College.

*Description:* The AP Computer Science course is considered a college level introductory course in computer science. A large part of the course is built around the development of computer programs or parts of programs that correctly solve a given problem. The course also emphasizes the design issues that make programs understandable, adaptable, and, when appropriate, reusable. At the same time, the development of useful computer programs and program modules is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. The AP Computer Science A course utilizes Java.

## **Business Communication**

**Course #2295**

*Grade Level:* 9 -12  
*Length:* Semester class (5 Credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply

*Description:* This course is designed to present students with different business scenarios that would require a specific form of communication, including e-mail, formal letters, presentations and more. Students will learn about different types of business documents and how to communicate effectively in each format. By the end of the course, they will have a solid understanding of the different methods and documents used to communicate effectively and will have a portfolio of sample documents for future reference.

## **Business and Personal Finance**

**Course #2215**

*Grade Level:* 10-12  
*Length:* Year class (10 credits)  
*Prerequisites:* Algebra 1  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply

*Description:* This course introduces students to the world of money management and personal finance. Students will learn to navigate the global financial marketplace that will affect them now and in the future. Topics include: The origins of money, the global marketplace, planning personal finances, banking and credit (including credit card usage), investing (including stock market simulation), protecting finances, business finance, and careers in business and finance. This class will help students learn to make money, become financially independent, and see how they fit into the world of business and finance.

## **Child Development**

**Course #2516**

*Grade Level:* 10- 12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits.  
*College Prep:* Fulfills ("g") requirement for UC/CSU.

*Description:* The course is a study of the developmental stages of children from conception through adolescence, emphasizing the principle theories of development. Child development is a course that will enable students to understand how to work with and care for children as they grow. Students will learn how children grow physically, mentally, socially, and emotionally from infancy through adolescence.

### **Computer Programming**

**Course #4730**

*Grade Level:* 9 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Geometry or Concurrently enrolled in Geometry

*Graduation:* Fulfills one year of Math requirement or elective credits

*College Prep:* Fulfills ("g") requirement for UC/CSU.

*Description:* Computer Programming is designed to focus on problem-solving skills, critical thinking, and computer ethics. It includes the basic concepts of structured programming and top-down design. Students learn to design (structured) algorithms to solve (programming) problems. Although a specific language will be used, the coverage of algorithms and design techniques is general enough to enable the student to use this course as a foundation for structured program solving in any language. The course includes one year of Visual Basic. Structured programming is taught through lectures, demonstration, analysis, and programming projects generally related to math, science, and business.

### **Fire 101: Intro to Fire Fighting**

**Course #0078**

*Grade Level:* 10-12

*Length:* Fall Semester

*Prerequisite:* None

*Graduation:* Fulfills elective credit

*College Prep:* Does not apply

Dual Enrollment with Los Medanos College.

*Description:* This is an introductory class which provides foundational information on the fire service. It is designed to provide information regarding fire service history, fire safety, fire terminology, fire loss and fire facts. Students will also understand career opportunities in California Fire, Emergency Management Services and related fields. This is the basic core class within the Fire Technology program. **\*Fire 101 Must be paired with Fire 102**

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### **Fire 102: Fire Behavior and Combustion**

**Course #0737**

*Grade Level:* 10-12

*Length:* Spring Semester

*Prerequisite:* Fire Science 101 – fall semester

*Graduation:* Fulfills elective credit

*College Prep:* Does not apply

Dual Enrollment with Los Medanos College.

*Description:* This course explains the chemistry of fire and its behavioral characteristics. It categorizes the major differences between the 5 classifications of fire. It will describe the dangers of fire suppression such as flashover and backdraft. It will identify the differences between firefighting strategies and firefighting tactics. **\*Fire 101 Must be paired with Fire 101**

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### **LMC POLSC-043 International Relations**

**Course #0741**

*Grade Level:* 11-12

*Length:* Fall Semester

*Prerequisite:* None

*Graduation:* Fulfills elective credit

*College Prep:* Does not apply

Dual Enrollment with Los Medanos College.

*Description:* This course introduces students to the study of political, economic, and cultural relations among nation-states, international organizations, and nonstate actors, focusing on the interdependence of nation-states and cultures in the modern world. Students will be introduced to the theories of realism and liberalism as well as the ethical implications of international conflict, trade, and sovereignty. The course features an interdisciplinary perspective, with contributions from geography, history, sociology, economics, and environmental studies.

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**LMC SJS-110 Introduction to Social Justice Studies**

*Grade Level:* 10-12  
*Length:* Spring Semester  
*Prerequisite:*  
*Graduation:* Fulfills elective credit  
*College Prep:* Does not apply  
Dual Enrollment with Los Medanos College.

**Course #0746**LOS MEDANOS  
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*Description:* Introduction to Social Justice Studies is an interdisciplinary course introducing students to the history, psychology and sociology of racial, ethnic, class, gender and sexual oppression in the United States and the history, strategy and structure of movements for social justice and liberation. It will explore the major theories of race, ethnicity, class, gender and sexuality as they are linked to social structures and institutional processes. Specific examples of persecution, segregation, and asymmetric power relations will be drawn from the testimony of the oppressed throughout American history - in art, film, literature and music. The practices of oppression and resistance in the United States will be compared and contrasted to the experiences of other nations and cultures.

**Intro to Mass Media**

*Grade Level:* 9 - 12  
*Length:* Year class (10 credits - may repeat up to 20 credits max)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* This course teaches basic production techniques which focus on copy writing, placement, layout design and continuity, photographic processes, advertising, marketing, sales promotion, and how to meet deadlines.

**Course #3188**

This class offers opportunities in photography, podcasting, online publishing, computer graphics and graphic design. While helping with the current year's yearbook, newspaper, school website and online publications, students will learn to write in a variety of styles and develop hands-on experience with several multi-media venues. (i.e developing a school calendar, planning yearbook design, publishing the school paper online and learning to use professional grade digital cameras and produce professional quality images).

**Intro to Broadcasting**

*Grade Level:* 9 – 12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply

**Course #4055**

*Description:* This is an entry-level course covering all aspects of the broadcast and mass media industries. The history of broadcasting and evolution of the technology as well as the techniques used to deliver the broadcast message will be covered. Topics will include: broadcast and no-broadcast television, cable television, radio, sports and movies as an important form of communication. The study of vocabulary, safety, and basic hands-on production skills will be developed and implemented.

**Sports Broadcasting**

*Grade Level:* 10-12  
*Length:* Year Class (10 credits)  
*Prerequisite:* Introduction to Broadcasting  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills ("g") requirement for UC/CSU.

**Course #4057**

*Description:* This course is a second-year course for students who have taken Introduction to Broadcasting and is a chance to focus on sports related content. Students will be responsible for the content, operations, and management of the student-run sports show in a multi-camera television studio and control room. Additionally, students will produce a variety of live sports content used to promote programs within the school. Students will continue learning about signal flow, audio and video equipment, lighting, and the various positions within the studio. This is a project driven course where students will learn the responsibilities needed to run a sports broadcast including producing, directing, play-by-play and color analysis, sideline reporting, and various technical positions. Students will produce a weekly live-sports show as well as producing live content for school sporting events.

**Microsoft Office Basics****Course #4066***Grade Level:* 9 - 12*Length:* Semester class (5 credits)*Prerequisite:* Computer Keyboarding highly recommended*Graduation:* Fulfills elective credits*College Prep:* Does not apply

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

**Computer Service & Repair I****Course #4021***Grade Level:* 9-12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills elective credits*College Prep:* Fulfills ("g") requirement for UC/CSU.

*Description:* Computer Service & Repair I class is an in-depth class that will cover the management, and troubleshooting of computers, computer systems and networks. This course is the essential foundation for newcomers to PC support. It provides students with the necessary training to ensure proficiency in PC installation and troubleshooting skills. The course has been developed to produce competent PC support engineers who are capable of taking and passing CompTIA's A+ Certification exams.

**Computer Service & Repair II****Course #4022***Grade Level:* 10-12*Length:* Year class (10 credits)*Prerequisite:* Computer Service & Repair I*Graduation:* Fulfills elective credits*College Prep:* Does not apply

*Description:* Computer Service & Repair II class is an in-depth class that will cover the management, and troubleshooting of computers, computer operating systems; computer/network/wireless security. The Students will acquire the knowledge & understanding of mobile devices including Android & Apple mobile devices. By the end of the class, students will gain experience and knowledge of troubleshooting computer/computer systems/networks/computer devices and operating systems. It provides students with the necessary training to ensure proficiency in Windows Operating systems, configuring SOHO Networks with internet connectivity access, troubleshooting skills and knowledge and features of mobile devices.

**Exploring Computer Science****Course #4077***Grade Level:* 9-12*Length:* Year class (10 credits)*Prerequisite:* None.*Graduation:* Fulfills elective credits*College Prep:* Fulfills ("g") requirement for UC/CSU.

*Description:* This course introduces fundamentals of computers and computer science. This course includes learning how to shop for a computer, solve problems using computer algorithms, web design, an introduction to programming, use mobile devices to collect and analyze data, and an introduction to robotics. This class is project based and the students will utilize hands-on activities to gain a better understanding of computer science.

**AP Cyber1-Networking fundamentals****Course #4215***Grade Level:* 11-12*Length:* Year class (10 credits)*Prerequisite:* None.*Graduation:* Fulfills elective credits*College Prep:* Does not apply

*Description:* This is a full-year high school course that covers the fundamentals of networking. It is equivalent to a college-level Introduction to Networking course. The course interweaves essential networking concepts with relevant, hands-on problem-solving activities to maximize students' understanding of network hardware and configuration, the use of protocols to enable reliable and accurate transmission of data between different hosts around the world, and relevant security practices that secure the transmission of data both within and between computer networks.

**AP Cyber2-Advanced Networking****Course #4216***Grade Level:* 11-12*Length:* Year class (10 credits)*Prerequisite:* AP Cyber1-Networking fundamentals*Graduation:* Fulfills elective credits*College Prep:* Does not apply

*Description:* This is a full-year high school course that covers the fundamentals of Cybersecurity. It is equivalent to a college-level Introduction to Cybersecurity course. AP Cybersecurity fundamentals introduce high school students to core cyber concepts like threats, vulnerabilities, risk management, network security, and data protection, bridging academic learning with career readiness for high-demand tech jobs through a College Board initiative focused on practical skills, industry tools (like firewalls, ethical hacking), and pathways to college credit or workforce entry.

**Health Career Core (Health Careers)****Course #1060Q***Grade Level:* 10 -12*Length:* Year class (10 credits)*Prerequisite:* Enrollment in Health Career Academy*Graduation:* Fulfills elective credits*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* Students will participate in job shadowing, explore social and ethical issues that impact the industry, and learn and develop competency in workplace procedures and skills in medicine and health care. Students in the course will develop a personal career and educational plan as it relates to their career choice, requirements within the industry, and the rapidly changing opportunities in health career.

**Virtual Enterprise****Course #2310***Grade Level:* 11 - 12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills elective credits*College Prep:* Does not apply

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

**Mock Trials, Moot Courts & Trial Advocacy****Course #5329***Grade Level:* 10 - 12*Length:* Year class (10 credits)*Prerequisite:* Foundations of Law, Gov & Public Service or ROP Law Enforcement Careers*Graduation:* Fulfills elective credits*College Prep:* Fulfills (“g”) requirement for UC/CSU.

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

**Teaching & Learning Careers (Internship)****Course #1615Q**

*Grade Level:* 12  
*Length:* Year class (10 credits)  
*Prerequisite:* Enrollment in Academy required  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* This capstone course provides CTE Education Careers pathway students in 12<sup>th</sup> grade with an opportunity to understand learning and teaching in its practical application. Students will explore growth and development, major learning theories, principles of learning and teaching, classroom management techniques, and strategies for extensive observations and evaluations of mentor teachers to better understand teaching practice and the application of learned theories and strategies. In addition, they will complete a minimum of 75 hours of fieldwork in a classroom under the guidance of a mentor teacher. This fieldwork will consist of implementing their own lesson plans and activities designed for content area courses. This course reinforces standards in reading, writing, speaking, listening, mathematics, social studies, and science and requires their application in educational settings. Students will be required to practice communication, ethics, interpersonal/team skills, critical thinking and problem solving, self-management, professionalism, and classroom safety. The students in this course will be key participants in building an academic culture.

**Culinary Arts I****Course #2577**

*Grade Level:* 11 - 12  
*Length:* Year class (10 credits)  
*Prerequisite:* none  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* The Food Service and Hospitality pathway focuses on the key aspects of the industry. Students pursuing this career pathway have in-depth, hands-on experiences that emphasize industry awareness; sanitation and safe food handling; food and beverage production; nutrition; food service management; and customer service.

**Culinary Arts II****Course #2578**

*Grade Level:* 11 - 12  
*Length:* Year class (10 credits)  
*Prerequisite:* Culinary Arts I  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* This course provides for the understanding of the physical, chemical and biological characteristics of food and is the second year in a two-year sequence of Culinary Arts. It is an advanced course in the Food Service and Hospitality pathway within the Hospitality and Tourism sector. The Culinary Arts II course presents students with a comprehensive curriculum that includes laboratory and academic preparation using food and gastronomy to better understand aspects of chemistry and biology. This course is an applied laboratory-based course that focuses on advanced skills and terminology used in meal management and food preparation. The course focuses instruction on advanced food safety and sanitation, the chemical composition of food, reactions of food and food microbiology as related to food preparation and techniques, along with facilities, storage and equipment. Students use the ability to research, collect data, analyze information, report findings, and evaluate products and performance.

**Percussion Ensemble Studies****Course #6046C**

*Grade Level:* 9 - 12  
*Length:* Yearlong  
*Prerequisite:* One year of Concert Band and/or permission of instructor  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* Percussion studies is designed to focus on the 40 essential rudiments of percussion. Rhythmic theory and percussive techniques will allow for developing skills necessary to perform as a drum unit or ensemble member. Students will audition and perform at concerts with large band ensembles, jazz band and orchestra as needed. Ensemble playing techniques will be stressed in class as well. Students have the opportunity to audition for Varsity and Jr. Varsity drumline. As a member of Varsity drum line, members will march in local parades and play in Pep Band in the fall and spring.

**Advanced Percussion Ensemble Studies****Course #6048C**

*Grade Level:* 9 - 12  
*Length:* Year class (entry at semester with permission of instructor)  
*Prerequisite:* Percussion Ensemble Studies and/or permission of instructor  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills (“g”) requirement for UC/CSU.  
*Description:* Advanced Percussion Ensemble Studies is an instrumental music course integrating the instruments of the

percussion family into the instruction and training of students in the primary roles of musical communication: composer, performer, and analytical listener. Emphasis in this course is placed on analysis of compositional techniques, acquisition and development of instrumental performance techniques, the development of aural skills necessary in recognizing unity, balance and ensemble cohesiveness within a musical ensemble and as a solo performer. Students will be assessed with various performance and listening rubrics. Students will participate in self-assessment, instructor assessment, and peer assessment. Students will participate in performances both during the school day and outside of school as part of the Advanced Varsity Drumline Ensemble.

### **Jazz Band 2**

**Course #6028C**

*Grade Level:* 9-12

*Length:* Year Class (10 credits)

*Prerequisite:* Concurrent enrollment in Symphonic or Concert Band and permission of instructor through audition.

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* Jazz band 2 is an advanced music and theory class for students wanting instruction and practice in the performance of jazz music. Many jazz styles are studied as well as music theory. All rehearsals and performances are required.

### **Music Theory and Technology**

**Course #6198C**

*Grade Level:* 9-12

*Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* Music Theory & Technology is open to students in grades 9-12. Students will discover and explore concepts used in music sequencing, notation and recording. No prior musical experience is needed, however, having training on an instrument or voice is highly recommended. Students will create music using sequencing/editing software, gain songwriting skills, discover how technology is used in the production of music, produce basic-level music technology projects, and learn MIDI recording and editing techniques.

# **ENGLISH**

## **AP English Language and Composition**

**Course #3085**

*Grade Level:* 11

*Length:* Year class (10 credits)

*Prerequisite:* Successful completion of English 10.

*Graduation:* Fulfills third year of English requirement

*College Prep:* Fulfills one-year English (“b”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

*Description:* This course is designed to focus on the study of American literature of various periods and genres. Students will become skilled readers and analyzers of literature written from a variety of time periods. As a result of such analysis, students will become skilled writers who will be able to produce compositions for a variety of purposes. Through their writing and reading assignments, as well as their preparation to take the Advanced Placement English Language and Composition exam, students are expected to become aware of the purpose and influence of American literature on their culture. Students are expected to take the Advanced Placement English Language and Composition exam in May. Teacher may assign reading and homework over the summer and/or intersession breaks.

## **AP Literature and Composition**

**Course #3120**

*Grade Level:* 12

*Length:* Year class (10 credits)

*Prerequisite:* Completion of English 11 or AP Language and Composition.

*Graduation:* Fulfills 4<sup>th</sup> year English requirement or elective credits

*College Prep:* Fulfills one-year English (“b”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

*Description:* AP English Literature and Composition challenges students to read and interpret a wide range of imaginative works. The course invites students to explore a variety of genres and literary periods and to write clearly about the literature they encounter. On a daily basis, it asks them to read critically, think clearly, and write concisely. By the end of the course, students should feel comfortable analyzing the structure of a poem or story, the themes of a drama, or the style of an essay. They should also be able to identify various literary devices and to explain how those devices help to create meaning in a particular text. Students should write at least once a week. Some writing might be informal and exploratory; others might include research or work with literary criticism; still others might be timed, so students can practice writing under conditions similar to those of the AP Exam. Students are expected to take the Advanced Placement Literature and Composition exam in May. Teacher may assign reading and homework over the summer and intersession breaks

## **Creative Writing**

**Course #3170**

*Grade Level:* 10 - 12

*Length:* Year class (10 credits)

*Prerequisite:* English 1 with C or better

*Graduation:* Fulfills elective credit

*College Prep:* Fulfills one-year elective (“g”) requirement for UC/CSU

*Description:* Creative Writing is a course designed to build upon the writing skills introduced in previous English courses. The student will develop an appreciation of a variety of authors’ styles, a sense of personal voice, and an understanding of audience through extensive writing experiences. The emphasis of the course will be on the development of the students’ writing fluency and creativity. Students will also sample a variety of cultural and historical literature and poetry as well as experience dramatic presentations and storytelling.

## **English 9**

**Course #3030**

*Grade Level:* 9

*Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills first year of the 4-Year English requirement

*College Prep:* Fulfills one year of English (“b”) requirement for UC/CSU.

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

**English 10****Course #3040**

*Grade Level:* 10  
*Length:* Year class (10 credits)  
*Prerequisite:* Completion of English 9  
*Graduation:* Fulfills second year of the 4-Year English requirement  
*College Prep:* Fulfills one year of English (“b”) requirement for UC/CSU.

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

**English 11****Course #3050**

*Grade Level:* 11  
*Length:* Year class (10 credits)  
*Prerequisite:* Completion of English 10  
*Graduation:* Fulfills third year of the 4-Year English requirement  
*College Prep:* Fulfills one-year English (“b”) requirement for UC/CSU.

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

**English 12****Course #3060**

*Grade Level:* 12  
*Length:* Year class (10 credits)  
*Prerequisite:* Completion of English 11  
*Graduation:* Fulfills fourth year of the 4-year English requirement  
*College Prep:* Fulfills one-year English (“b”) requirement for UC/CSU.

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

**LMC English 100-Fall/English Elective-Spring****Course #0703/0701E**

*Grade Level:* 12  
*Length:* Year class  
*Prerequisite:* Completion of English 11  
*Graduation:* Fulfills fourth year of the 4-year English requirement  
*College Prep:* Fulfills one-year English (“b”) requirement for UC/CSU. Dual enrollment class thru Los Medanos College.

LOS MEDANOS  
COLLEGE

*Description:* English 100 is a college-level course designed to help students develop critical reading, thinking and writing skills. Students read essays and articles dealing with multi-cultural issues and current events, and write effective thesis-driven academic essays which synthesize the readings. Students will produce at least 6,000 words of formal, final draft writing that draws upon the assigned readings as well as articles that students have researched on their own. They will also read, analyze and write about one book-length work. The spring LMC English Elective class is to be determined by LMC and more information will be forthcoming in the fall via HHS school counselors.

**Literary Analysis through Film****Course #3184**

*Grade Level:* 10-12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credit  
*College Prep:* Fulfills one-year elective (“g”) requirement for UC/CSU

*Description:* Literary Analysis through Film is an academic elective for English Language Arts designed to introduce students to analyzing elements of literature using film as a text. By using film as a text, the course sets a foundation and enhances student comprehension, analysis, criticism and appreciation of non-fiction, fiction, drama and basic cinematic techniques.

**Speech and Debate****Course #3202**

*Grade Level:* 9-12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.

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

**Competitive Speech and Debate 1****Course #3203***Grade Level:* 10 – 12*Length:* Year class (10 credits)*Prerequisite:* 2.5 English GPA or recommendation of current English or Speech teacher*Graduation:* Fulfills elective credits*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.*Description:* Competitive Speech and Debate is a one- year course in oral communication. Emphasis will be placed on the development of high-level communication, performance, and argumentative skills. Students will be instructed on how to effectively research, practice, and execute a variety of speech and debate formats. Students will then use these skills to compete in a tournament competition by the end of the year.**Competitive Speech and Debate 2****Course #3204***Grade Level:* 11 – 12*Length:* Year class (10 credits)*Prerequisite:* Successful completion of Competitive Speech and Debate 1, or have participated in a competitive speech and debate program for a least a year.*Graduation:* Fulfills elective credits*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.*Description:* Competitive Speech and Debate 2 is a one-year course in oral communication. The course will apply principles taught in Competitive Speech and Debate 1 in more sophisticated ways. Each module will show students how to more effectively appeal to an audience, construct arguments, and deliver powerful speeches. The students will use this knowledge to compete in tournaments throughout the year.**Music as Literature****Course #3181***Grade Level:* 10 - 12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills elective credits*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.*Description:* Music as Literature is an academic elective for English Language Arts designed to introduce students to analyzing elements of literature using songs as a text. By using lyrics and music as a text, the course allows students to access poetic elements to connect the meaning and purpose of the songs to its construction as both a poem and piece of music through individual and collaborative analysis, discussion, and criticism. The course examines various genres of music as literature, spanning from the origins of folk music to country, rock, pop, musical theater, and rap/hip hop.

## HHS Math Pathways 2026-2027



# MATHEMATICS

## **Algebra 1**

**Course #4630**

*Grade Level:* 9–12

*Length:* Year class (10 credits)

*Prerequisite:* Placement based upon District- Approved criteria

*Graduation:* Fulfills one year of the math requirement

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU.

*Description:* Algebra 1 is a college preparatory, standards-based math course built around problems designed to teach concepts, short writing assignments, and routine review necessary to retain skills. It is the goal of this course to empower students to use mathematics as a problem-solving tool and to demonstrate the importance of mathematics in their futures. A grade C or better in previous math class will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

## **Intensified Algebra-(two classes)**

**Course #4571/4576**

*Grade Level:* 9

*Length:* Year class (20 credits)

*Prerequisite:* Teacher Recommendation

*Graduation:* Fulfills one year of Algebra 1 and one year of elective credits

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU.

*Description:* Intensified Algebra 1 is designed to focus on a deepening of understanding of linear relationships, with extension to exponential and quadratic functions. A significant focus is on modeling of functions. Students will engage in analyzing, solving, and building functions. This applies to functions that are linear, exponential, and quadratic. Students compare and contrast these models. Students understand and apply exponential reasoning to square and cube roots. Students learn to apply linear models to data that exhibit a linear trend using statistical reasoning. Students will communicate mathematical thinking verbally and in written form and apply concepts of mathematics to real-world situations. Students will receive additional time to review/reinforce Algebra and additional mathematical topics to remediate the mathematical skills necessary for success in all future mathematics classes.

## **Algebra 2**

**Course #4690**

*Grade Level:* 9 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra 1 and Geometry

*Graduation:* Fulfills one year of math requirement or elective credits

*College Prep:* Fulfills one-year math (“c”) for UC/CSU.

*Description:* Algebra 2 is a second-year course in algebra designed to review and broaden algebraic concepts introduced in Algebra 1 and Geometry. It meets university requirements and includes linear and quadratic equations, graphing, progression, real and complex number systems, relations and functions (exponential, logarithmic, and polynomial). A grade C or better in previous math classes will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

## **Algebra 2 Support**

**Course #4510**

*Grade Level:* 9 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Enrolled in Algebra 2

*Graduation:* Fulfills one year of elective credits

*College Prep:* Does not apply

*Description:* Algebra 2 is an elective course designed for students currently enrolled in Algebra 2 who need additional help to be successful.

## **Algebra 2/Pre-Calculus**

**Course #4702**

*Grade Level:* 10 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Successful completion of Algebra I, Geometry, and teacher recommendation

*Graduation:* Fulfills one year of math requirement or elective credits

*College Prep:* Pending Fulfills one-year math (“c”) requirement for UC/CSU.

*Description:* Upon completion of this course, students are prepared to take AP Calculus and other higher-level math courses. This course compacts the common core algebra 2 standards with the common core ( + ) pre- calculus standards. Function concepts covered includes polynomial, rational, exponential, logarithmic, and trigonometric functions along with transformation of functions using a parent function. Additional content covered includes conics, analytic trigonometry, complex number theory (DeMoivre’s Theorem), introduction to vector theory, matrices and determinants, sequences, series, binomial theorem, counting principles, probability, and statistics. Finally, the course assignments will emphasize use of the

“Eight Mathematical Practices”. Students will make sense of problem situations, solve higher order thinking problems, derive key theorems, use technology where appropriate, work in groups to develop teamwork skills, and demonstrate procedural fluency in their responses.

### **AP Calculus AB**

**Course #4720**

*Grade Level:* 11 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Pre-Calculus with C or better

*Graduation:* Fulfills one year of math requirement or elective credits

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU. Student will receive an extra grade point bonus for grades A-C.

*Description:* Calculus is designed for the motivated math student who will likely pursue a career in a math- related field. Calculus extends the study of limits, functions and derivatives, considers applications of the derivative, including velocity and optimization, studies of integration including exponential functions, and applications of the definite integral, including volumes of solids of revolution and areas of surfaces of revolution. The course prepares students to take the Advanced Placement examination. A grade C or better in previous math classes will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

### **AP Calculus BC**

**Course #4725**

*Grade Level:* 11 - 12

*Length:* Year class (10 credits)

*Prerequisite:* C or better in AP Calculus AB

*Graduation:* Fulfills one year of math requirement or elective credits

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU. Student will receive an extra grade point bonus for grades A-C.

*Description:* Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics taught in Calculus AB plus additional topics, but both courses are intended to be challenging and demanding; they require a similar depth of understanding of common topics. A grade C or better in previous math classes will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

### **AP Statistics**

**Course #4750**

*Grade Level:* 11–12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra 2

*Graduation:* Fulfills One Year Math Requirement or elective credits

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU. Student will receive an extra grade point bonus for grades A-C.

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

### **Applied Career Mathematics**

**Course #4600**

*Grade Level:* 11–12

*Length:* Year class (10 credits)

*Prerequisite:* Geometry 1 or better

*Graduation:* Fulfills one year of math requirement or elective credits

*College Prep:* Does not apply

*Description:* Applied Career Math is a course the integrates hands-on laboratory activities, cooperative learning opportunities and video programs with text materials that teach important math concepts by emphasizing problem-solving and decision-making through workplace applications. The students will investigate, construct and apply algebra, geometry, statistics and probability skills through contextual hands-on learning.

### **Geometry**

**Course #4670**

*Grade Level:* 9-12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra 1

*Graduation:* Fulfills one year of math requirement

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU.

*Description:* Geometry is a college preparatory standards-based math course. This class is designed to not only increase students understanding of geometry, but to also act as an important transition from basic Algebra 1 to Algebra 2. A grade C or better in previous math class will assure greater success in this class. Colleges will not acknowledge courses

completed with less than a C grade.

### **Financial Algebra**

**Course #4643**

*Grade Level:* 10 – 12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra I + Geometry

*Graduation:* Fulfills one year of math requirement

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU.

*Description:* This course implements the standards of Advanced Algebra, Statistics, Probability, Precalculus, and Calculus under seven financial umbrellas: Banking, Investing, Credit, Employment and Income Taxes, Automobile Ownership, Independent Living, and Retirement Planning and Household Budgeting.

### **Geometry Support**

**Course #4501**

*Grade Level:* 9 - 12

*Length:* Year class

*Prerequisite:* Enrolled in Geometry

*Graduation:* Fulfills elective credits

*College Prep:* Does not apply

*Description:* Geometry Support is an elective course designed for students currently enrolled in Geometry who need additional help to be successful.

### **AP Pre-Calculus**

*Grade Level:* 10-12

*Length:* Year class (10 credits)

*Prerequisite:* C or better in Algebra 2

*Graduation:* Fulfills one year of math requirement or elective credits

*College Prep:* Fulfills one-year math (“c”) requirement for UC/CSU.

*Description:* AP Precalculus prepares students for other college-level mathematics and science courses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

### **Statistics**

**Course #4740**

*Grade Level:* 11–12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra 2

*Graduation:* Fulfills One Year of Math requirement or elective credits

*College Prep:* Fulfills one-year Math (“c”) requirement for UC/CSU

*Description:* Statistics is a college prep course designed for juniors and seniors who have completed Algebra 2 and would like to learn how to collect, analyze, and interpret data correctly. The basic structure of the class will involve group work and projects such as surveys, an analysis of the lottery, gambling probabilities, and business and marketing applications. Included in the basic course content is SAT Preparation for Math. Students enrolled in this class are encouraged to own a graphing calculator or one that does statistical calculations. A grade C or better in previous math classes will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

## **PHYSICAL EDUCATION**

### **Advanced Athletic Skills**

**Course #5662**

*Grade Level:* 10-12

*Length:* Semester class (5 credits – repeatable for credit)

*Prerequisite:* 9<sup>th</sup> Grade core PE Programs; participation in a sport and/or teacher recommendation

*Graduation:* Fulfills elective credits

*College Prep:* Does not apply

*Description:* This course focuses on in and out-of- season physical training for the student athlete and is designed to help improve performance and minimize the potential for injury. Training will include progressive plyometric techniques, agility drills, flexibility exercises and core strengthening techniques. Health and nutritional issues specific to the student athlete will also be addressed.

### **Baseball/Softball Techniques and Tactics**

**Course #5668**

*Grade Level:* 10-12

*Length:* Semester class (5 credits – repeatable for credit)

*Prerequisite:* PE 9; can be concurrent with PE 10 *Graduation:* Fulfills elective credits

*College Prep:* Does not apply  
*Description:* Students will learn proper technique and tactics for baseball/softball, including conditioning, weight training, defensive, offensive, base running, and hitting skills.

### **Basketball Techniques and Tactics**

**Course #5674**

*Grade Level:* 10-12  
*Length:* Semester class (5 credits – repeatable for credit)  
*Prerequisite:* PE 9; concurrent PE 10 ok  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* Basketball Techniques and Tactics is a designed physical education elective focusing on basketball. Throughout the semester students will learn and practice the game of basketball with the goal of learning lifelong athletic skills through basketball participation. In addition, students will learn the history of basketball to increase knowledge base.

### **Self Defense Strategies & Tactics**

**Course #5678**

*Grade Level:* 10-12  
*Length:* Semester class (5 credits – repeatable for credit)  
*Prerequisite:* PE 9; concurrent PE 10 ok  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* This course will focus on the basic self-defense strategies and tactics This course primarily designed for beginners interested in being exposed to differing philosophies in self-defense. Situational awareness and the impact awareness has on you and a potential assailant will be discussed and practiced in class. Academically, the course covers topics of assault, battery, rape, date rape, and home invasion crimes.

### **Bowling Fundamentals**

**Course #5670**

*Grade Level:* 11-12  
*Length:* Semester class (5 credits – repeatable for credit)  
*Prerequisite:* PE 9; concurrent PE 10 ok. Class is off campus. Student is responsible for transportation.  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* An introduction to the discipline of Physical Education through the sport of Bowling. The course will include a historical examination, styles of play and strategies of the sport. Students will strive to develop basic skills including approach; types of deliveries, strategy, etiquette, and league play associated with the sport of bowling. Adaptations related to gender, age and physical conditioning would be addressed.

### **Physical Education - Grade 9**

**Course #5750**

*Grade Level:* 9  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills One Year of Physical Education requirement.  
*College Prep:* Does not apply  
*Description:* Physical Education is required in Grade 9. Freshmen students are in separated co-ed classes. All Freshmen Physical Education students take the California Physical Performance and Health Related Test during the first and third quarters. Some other things covered are orientation, physical fitness, field games, weight training, ply metrics, wrestling, various team sports, and steroid and nutrition education. All freshmen will take swimming first or fourth quarter. The physical education curriculum reflects the Liberty Union High School District Standards and Benchmarks in Physical Fitness and Health.

### **Physical Education Grades 10–12**

**Course #5760**

*Grade Level:* 10–12  
*Length:* Year class (10 credits)  
*Prerequisite:* Freshman P.E.  
*Graduation:* Fulfills One Year of Physical Education requirement  
*College Prep:* Does not apply  
*Description:* Physical Education (Gr. 10–12) emphasizes physical fitness. Other class activities may include: Aerobics, Badminton, Basketball, Fitness Training, Flag Football, Plyometrics, Plyorobics, Soccer, Softball, Swimming, Tennis, Track & Field, Volleyball and Weight Training. The physical education curriculum reflects the Liberty Union High School District Standards and Benchmarks in Physical Fitness and Health.

### **Strength and Fitness**

**Course #5792**

*Grade Level:* 10-12  
*Length:* Semester class (5 credits – repeatable for credit)  
*Prerequisite:* PE 9; concurrent PE 10 ok

*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* Develop physical fitness through weight training, circuit training and cardiovascular activities.  
Students will learn how to set up an appropriate workout regimen to meet personal goals for both short and long-term fitness. Physical fitness assessment testing and re- testing will assist students in establishing appropriate training volumes and intensities.

### **Team Sports**

**Course #5790**

*Grade Level:* 10-12  
*Length:* Semester class (5 credits – repeatable for credit)  
*Prerequisite:* PE 9; concurrent PE 10 ok  
*Graduation:* Fulfills elective credits (does not replace Core PE classes)  
*College Prep:* Does not apply  
*Description:* Physical Education emphasizes fitness and exercise through advanced team sports. Students in Team Sports develop advanced skills in Volleyball, Flag Football, Softball, Ultimate Frisbee, Soccer and Basketball.

### **Yoga Plus**

**Course #6007**

*Grade Level:* 10 – 12  
*Length:* Semester class (5 credits – repeatable for credit)  
*Prerequisite:* PE 9; concurrent PE 10 ok  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* This course will focus on the basics of yoga, technique and practice. Yoga styles will include Bikram, Vinyasa Flow, and Iyengar. Non-religious yoga philosophy and yoga history will be introduced. Other cultural styles and histories of movement such as Tai Chi, improvisation, partner dance, and the history and philosophy of social and cultural movement and social dance etiquette will be introduced.

## **ROP PROGRAM**

(Contra Costa County Regional Occupational Program)

### **ROP Advanced Video Production**

**Course #6188**

*Grade Level:* 11-12  
*Length:* Year class (10 credits)  
*Prerequisite:* Art of Video Production or prior consent of instructor  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills (“f”) requirement for UC/CSU.  
*Description:* This is an advanced video production class in which students build upon previously acquired skills. Students fulfill all roles of a broadcasting studio. This competency-based course prepares students for entry-level positions in the broadcasting industry, as well as preparing them for advanced studies at the postsecondary level. Integrated throughout the course are career preparation standards which include basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology and employment literacy.

### **ROP Digital Recording Studio**

**Course #6195**

*Grade Level:* 10 -12  
*Length:* Year class (10 credits)  
*Prerequisite:* Musical experience recommended but not required  
*Graduation:* Fulfills elective credit (may be repeated for credit)  
*College Prep:* Articulated for 3 college units in RA-025 at Los Medanos College. Fulfills (g”) requirement for UC/CSU.  
*Description:* This competency-based course prepares students for entry-level positions as producer, recording engineer-technician, and/or recording studio musician.

Integrated throughout the course are career preparation standards which include basic academic skills, communication, interpersonal skills, problem-solving, workplace safety, technology and employment literacy. Students wanting to train as recording engineers receive hands-on training in the studio, gaining a working knowledge of the equipment. They will learn the process of recording—from live performance to CD. Students wanting to train as recording studio musicians will learn important aspects of becoming a “recording studio” musician. And do a minimum of ten live performances per year to help prepare for their recording experience.

### **ROP Journalism (Newspaper)**

**Course #3193**

*Grade Level:* 10 -12  
*Length:* Year class (10 credits)  
*Prerequisite:* Application  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills one-year Elective (“g”) requirement for UC/CSU. Articulated for college units in JOURN-129 at

LOS MEDANOS  
COLLEGE

LOS MEDANOS  
COLLEGE

Los Medanos College.

*Description:* In this course students expand their English/Language Arts skills through creating and publishing the school newspaper. Students are required to write monthly assignments of up to 2,000 words for the newspaper plus additional pieces for other class projects. They practice varied forms of journalistic and creative writing including news, features, and sports stories as well as reviews and editorials. Students also explore the history of journalism and its role in American society. Students learn to use specialized software for word processing, page layout, and graphic design. This course is open to 11th and 12th grade students who are interested in refining their writing skills as well as exploring journalism as a college major and a career.

### **ROP Law Enforcement Careers**

**Course #2760**

*Grade Level:* 11-12

*Length:* Year class (10 credits)

*Prerequisite:* Age 16

*Graduation:* Fulfills elective credit

*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU. Articulated for 3 college units in ADJUS-110 at Los Medanos College.

LOS MEDANOS  
COLLEGE

*Description:* In this course, students will learn the structure and organization of the criminal justice system and gain knowledge of basic police procedures, regulations and responsibilities. Included is an overview of codified law and penal code, laws of arrest, search and seizure guidelines, patrol and investigative procedures, emergency response, and field trips to police stations and courtrooms. Emphasis placed on developing awareness of citizens’ rights and responsibilities, the realities of police work, and the positive role of law enforcement in the community.

### **ROP Publications (Yearbook)**

**Course #2095**

*Grade Level:* 10 - 12

*Length:* Year class (10 credits)

*Prerequisite:* ROP Journalism or teacher approval

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills (“f”) requirement for UC/CSU.

*Description:* Students will expand their English/Language Arts skills through the creation and publication of the school’s yearbook. They will use knowledge of journalism principles, graphics design, layout and photography as well as specialized software. Creativity and the ability to meet deadlines will contribute to the success of the students in this class.

### **ROP Robotics Engineering Technology**

**Course #4260**

*Grade Level:* 10-12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra and Geometry; Computer Programming, or Physics recommended.

*Graduation:* Fulfills elective credit

*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.

*Description:* Robotics Engineering Technology explores the interaction of science and technology. The program is designed to interest students in the field of robotics and motivate them to pursue advanced education in science and engineering. In this class, students will apply the scientific method and build on physics and mathematics concepts by investigative research that required inquiry, data collection, and analysis. Included is instruction in the history and theory of robotic technology, computer control systems and artificial intelligence.

Computer programming is emphasized. Using the engineering design team concept as a model, students work in small groups to research, design, program, and construct robotic devices used in competition, including NASA’s U.S. FIRST. Integrated throughout the course are career preparation standards which include basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology and employment literacy.

### **Robotics Engineering Technology II**

**Course #4265**

*Grade Level:* 10-12

*Length:* Year class (10 credits)

*Prerequisite:* ROP Robotics Engineering I

*Graduation:* Fulfills elective credit

*College Prep:* Does not apply

*Description:* Robotics Engineering Technology II continues the exploration of the interaction of science and technology. The program is designed to interest students in the field of robotics and motivate them to pursue advanced education in science and engineering. In this class, students will apply the scientific method and build on physics and mathematics concepts by investigative research that requires inquiry, data collection, and analysis. Included is instruction in the history and theory of robotic technology, computer control systems, and artificial intelligence. Using the engineering design team concept as a model, students work in small groups to research, design, program, and construct robotic devices used in FIRST robotics and MATE ROV competitions. Integrated throughout the course are career technical education standards which include basic academic skills, communication, career planning, technology, problem solving, safety, responsibility, ethics, teamwork, and technical knowledge.

**ROP Sports Medicine 1****Course #5582***Grade Level:* 10 -12*Length:* Year class (10 credits)*Prerequisite:* Living Earth (Biology) or teacher approval*Graduation:* Fulfills elective credits*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.*Extra:* 45 hours of Internship/ Shadowing with a medical professional approved by teacher.

*Description:* Sports Medicine is designed to explore human anatomy and physiology, and lays the foundation for further study of these sciences. Students learn how systems of the body function and interact through physical activity, and develop a thorough understanding of the structure and function of the musculoskeletal system. This knowledge serves as a platform for understanding the physiological response to injury and improving performance. Students taking this class may be eligible for an after-school sports medicine practicum with the school’s athletic teams. Integrated throughout the course are career preparation standards, which include basic academic skills, communication, interpersonal skills, problem solving, safety, technology, and employment literacy. Upon completion of this course students will be prepared for the advanced sports medicine courses offered.

**ROP Advanced Sports Medicine (Sports Med. 2)****Course #5585***Grade Level:* 11-12*Length:* Year class (10 credits)*Prerequisite:* ROP Sports Medicine 1*Graduation:* Fulfills elective credits*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.*Extra:* 45 hours of internship/shadowing with a medical professional approved by the teacher.

*Description:* Advanced Sports Medicine provides an excellent opportunity for students to continue exploring their interest in the fields of health science and medicine. This class provides a framework of advanced skills for understanding functional anatomy and kinesiology, building on the concepts of anatomy/physiology learned in Sports Medicine. The lecture/lab format focuses on clinical hands-on applications of theory and knowledge, including evaluation, assessment, treatment and rehabilitation of athletic injuries. Internship opportunities are available at after-school athletic events, assisting the head athletic trainer or team physician, and working with other health care professionals.

## **SCIENCE**

**Anatomy & Physiology****Course #5060***Grade Level:* 11 - 12*Length:* Year class*Prerequisite:* The Living Earth (Biology); Chemistry in the Earth System recommended*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU. Articulated for college units in BIOSC-030 at Los Medanos College.

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

**AP Biology****Course #5010***Grade Level:* 11-12*Length:* Year class (10 credits)*Prerequisite:* The Living Earth and Chemistry in the Earth System*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

*Description:* AP Biology is designed for the advanced science student. This course is the equivalent of a college Introductory Biology course and completes preparation for the Advanced Placement Biology examination. The three general areas covered in this course are: Molecules and Cells, Heredity and Evolution, and Organisms and Populations. AP Biology expands on knowledge that the students have gained in their previous high school science courses. This course includes extensive use of modern biological research technology.

**AP Chemistry****Course #5160***Grade Level:* 11 - 12*Length:* Year class (10 credits)*Prerequisite:* Algebra 2 (can be taken concurrently) and Chemistry in the Earth System*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU. Students will receive an extra grade

point bonus for grades A-C.

*Description:* AP Chemistry is a rigorous college level Chemistry course designed to prepare students to take and pass the AP Chemistry exam. The class emphasizes concepts of chemistry, mathematical problem-solving skills applied to chemistry problems, critical thinking skills utilized in class and in written assignments, and hands-on experiences. Laboratory activities are a major part of this class.

### **AP Environmental Science**

**Course #5092**

*Grade Level:* 10-12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra 1, The Living Earth (Biology); Chemistry recommended.

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one-year Laboratory Science (“d”) for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

*Description:* Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems both natural and human made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study, yet there are several major unifying themes. Environmental Science includes a strong laboratory and field investigation component. Students who take the AP Environmental Science Exam in May have the opportunity to earn Advanced Placement (AP) credit for college.

### **AP Physics I**

**Course #5185**

*Grade Level:* 10 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Completion of Geometry recommended and concurrent enrollment in Algebra II.

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

*Description:* AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The year will culminate in the administration of the AP Physics 1 exam.

### **AP Physics 2**

**Course #5186**

*Grade Level:* 11 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Successful completion of Physics in the Universe or AP Physics I.

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

*Description:* Advanced Placement Physics 2 is a second year, college level course that uses advanced algebra skills. It is the second year of a two-year sequence, with a first year Physics or AP Physics 1 course required for entry into the AP Physics 2 course. AP Physics 2 uses an algebra-based college level text, but students are often shown problem solutions using the methods of calculus, and sample tests used for evaluation are often taken from Physics C Mechanics previous exam questions. Topics include electro-magnetism, circuits, Kirchoff loop rules, thermodynamics, fluid mechanics, geometric optics and nuclear physics.

### **The Living Earth (Life Science)**

**Course #5020**

*Grade Level:* 9 - 12

*Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills Life Science requirement

*College Prep:* Fulfills one-year Laboratory Science (“d”).

*Description:* The sequence presented here spirals in scale, starting with ecosystems as a whole (looking at both living and non-living components), progressing into connections within ecosystems describing the cycling of matter in two important life processes photosynthesis and respiration while also emphasizing the non-living parts of these cycles. Then the course moves into evolution (where evidence is based in both living and non-living systems) and then links evolution to the study of heredity. From there, the course zooms in more (progressing to smaller scales) on what defines characteristics of life from the cell to multicellular organisms. The course ends by coming back full circle to ecosystems and the impacts that humans have on them especially in relationship to climate change. A culminating project for this course should present a synthesis of how life on Earth is dependent on both biotic and abiotic factors.

**Integrated Science****Course #5015***Grade Level:* 9 - 10*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills elective credits*College Prep:* Meets UC/CSU “g” requirement

*Description:* The sequence of this course is based on a specific storyline about energy and human impact. Using atomic structure and nuclear processes, students explain energy transfer through radiation, convection, and conduction, and how this affects the Earth’s crust and climate, including California's Environmental Principles and Concepts. Students will explore phenomena such as Newton’s Laws, stellar evolution, geology, the water cycle, and plate tectonics, culminating in a project on human impact.

**Biotechnology I****Course #5041***Grade Level:* 10 -12*Length:* Year class (10 credits)*Prerequisite:* The Living Earth (Biology) One year of Chemistry in the Earth System recommended (may be taken concurrently)*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU.

*Description:* The Biotechnology course is designed to prepare and interest students in basic laboratory techniques and introduce them to concepts and beginning competency in the field of bioscience. The bioscience industry includes agricultural biotechnology and pharmaceutical companies, as well as clinical and research laboratories in hospitals, universities, government’ and independent settings. The course is divided into four parts. Each part will build on and interact with the others.

Students will learn how to document and record their work in a research notebook. Students will begin to use and analyze research publications and popular scientific literature (printed materials and Internet search). This course will give students a head start in post-secondary microbiology, genetics molecular biology, biochemistry, and immunology courses.

**Biotechnology II****Course #5142***Grade Level:* 11 -12*Length:* Year class (10 credits)*Prerequisite:* Biotech I or AP Environmental Science One year of Chemistry in the Earth System recommended*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU.

*Description:* The biotechnology II course is designed to prepare and interest students in basic laboratory techniques and introduce them to concepts and beginning competency in the field of bioscience. The bioscience industry includes an environmental focus including agricultural biotechnology, products found in nature, pharmacogenomics for food sustainability, and environmental solutions such as biofuel and bioremediation, the course is divided into four parts. Each part will build on and interact with the others. Students will learn how to document and record their work in a research notebook. Students will begin to use and analyze research publications and popular scientific literature (printed materials and Internet search). This course will give students a head start in postsecondary microbiology, genetics molecular biology, biochemistry, and environmental courses.

**Chemistry in the Earth System (Physical Science)****Course # 5140***Grade Level:* 10 – 12*Length:* Year class (10 credits)*Prerequisite:* Algebra 1 + Living Earth*Graduation:* Fulfills Physical Science requirement.*College Prep:* Fulfills one-year Laboratory Science (“d”).

*Description:* The sequence of this course is based on a specific storyline about climate change with a tangible example of combustion and food calorimetry, and indeed the combustion of fossil fuels and release of heat, carbon dioxide, and water is a fundamental thread that ties together most of the sections of the course and ensures that chemistry concepts are able to be placed in the context of Earth’s systems. While many chemistry courses begin with the study of the atom, this course begins with macroscopic observations of a familiar phenomenon (combustion). The next Instructional Segment zooms into the microscopic, but begins with simple interactions between particles to explain thermal energy and how it is exchanged within systems. Students then apply their understanding of heat flow to see its role in driving plate tectonics within the Earth system. Only after students are firmly thinking about matter as particles do they zoom in and look at the nature of the particles themselves by studying atoms and how their behaviors are categorized into the periodic table. Students are now equipped to model simple chemical reactions. They return to the combustion chemical reaction and consider the impact its reaction product, carbon dioxide, has on the global climate system. Students consider more advanced chemical reactions and then apply their understanding of chemical equilibrium to a very real problem of ocean acidification, which is also due to changes in carbon-dioxide concentrations in the atmosphere. In the end, students will have explored the fundamentals of chemistry and essential roles that these processes play in Earth’s solid geosphere, its

liquid hydrosphere, and its gaseous atmosphere.

### **Entomology**

**Course #5075**

*Grade Level:* 10–12

*Length:* Year class (10 credits)

*Prerequisites:* Completion of 10 units of Living Earth (Biology)

*Graduation:* Fulfills elective credit

*College Prep:* Fulfills one-year Laboratory Science (“d”) requirement for UC/CSU

*Description:* Entomology is a one-year course designed for the student who seeks additional experience in biological science in her/his high school education. This course provides a number of field activities and will enable the student to identify major taxonomic groups of aquatic and terrestrial arthropods. Students will build and maintain an insect collection over the course of the year and will use taxonomic keys to identify specimens that they collect. The course will also focus on insect development, structure, physiology, distribution, and ecological, economic, and agricultural importance and life cycles of insects. Field trips will be taken for opportunities to learn various sampling techniques, and collect specimens. Further, relevance to Forensic Science will be taught in a unit on Forensic Entomology

### **Physics in the Universe**

**Course #5165**

*Grade Level:* 10 - 12

*Length:* Year class (10 credits)

*Prerequisite:* Algebra 1

*Graduation:* Fulfills Physical Science requirement

*College Prep:* Fulfills one-year Laboratory Science (“d”).

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

# **SOCIAL SCIENCE**

## **AP Human Geography**

**Course #5260**

*Grade Level:* 9–12

*Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills Elective Credits

*College Prep:* Fulfills one-year History (“a”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A–C.

*Description:* AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the 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 tool geographers’ use in their science practice.

## **AP Psychology**

**Course #5397**

*Grade Level:* 11-12

*Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one-year elective (“g”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A–C.

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

## **AP U.S. Government and Politics**

**Course #5295**

*Grade Level:* 12

*Length:* Semester class (5 credits)

*Prerequisite:* None

*Graduation:* Fulfills 5 American Government credits required for graduation and 5 elective credits.

*College Prep:* Fulfills one semester History (“a”) requirement for UC/CSU.

*Description:* This AP Government class will prepare students to take the AP Exam in May as well as meet the graduation requirement of 5 credits in American Government. The course will emphasize reading of political philosophy as well as essay writing in specific content areas related to not only American governmental systems but also other governmental systems as necessitated by the College Board. Students successful in passing the AP Exam will receive advanced placement upon entering college.

## **AP European History**

**Course #5380**

*Grade Level:* 10-12

*Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills World History Requirement

*College Prep:* Meets UC/CSU ‘a’ requirement for honors or AP courses and receives an extra grade point (A-5 on a 4-point scale)

*Description:* Advance Placement European History is designed to increase the student’s understanding of European History from 1450 to 1970. The course will include the major themes, trends, and events in the development of political, social, and economic institutions, as well as cultural and intellectual development. This course also designed for advance students who wish to prepare to take the A.P. exam in European History.

**American Government****Course #5330**

Grade Level: 12

Length: Semester class (5 credits)

Prerequisite: None

Graduation: Fulfills American Government requirement.

College Prep: Fulfills one semester History (“a”) requirement for UC/CSU.

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

**Economics****Course #5335**

Grade Level: 12

Length: Semester class (5 credits)

Prerequisite: None

Graduation: Fulfills Economics requirement.

College Prep: Fulfills one semester History of (“g”) requirement for UC/CSU.

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

**AP Macro Economics****Course #5365**

Grade: 12

Length: Semester class (5 credits)

Prerequisite: None

Graduation: Economics requirement

College Prep: Fulfills one semester elective (“g”) requirement for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

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

**African American History 1****Course #5276**

Grade Level: 10-12

Length: Year class (10 credits)

Prerequisite: None

Graduation: Fulfills elective credits

College Prep: Fulfills one semester History (“a”) requirement for UC/CSU.

Description: In the first semester the course studies the history of African Americans from the beginning of the Atlantic slave trade to the passage of the 13th Amendment. This history includes the experiences of free and enslaved African Americans, and the impact of race-based chattel slavery on African Americans and on American history. In the second semester the course studies the history of African Americans from the period immediately following the abolition of slavery through the Civil Rights and Black Power Movements, ending with the assassination of Martin Luther King, Jr. This history includes the social, economic, and political development of the African American identity, including the securing of equal rights and the emergence of black pride and black power in the 20th century.

**AP African American History 1****Course #5271**

Grade Level: 11-12

Length: Year class (10 credits)

Prerequisite: None – African American History recommended

Graduation: Fulfills elective credits

College Prep: Fulfills 10 units of elective credit – “A-G credit pending

Description: AP African American Studies is an interdisciplinary course that draws from a variety of fields—history, literature, the arts, geography, science—to explore the vital contributions and experiences of African Americans, from ancient African societies to the present. As with all AP courses in the history and social sciences, students will apply analysis and research skills as they review primary sources and original artifacts.

**Foundations of Law, Govt & Public Service****Course #5320***Grade Level:* 10-12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills elective credits*College Prep:* Fulfills (“g”) requirement for UC/CSU.

*Description:* This course serves as an introduction to the fields of law, government & public service and provides cooperative learning and decision-making activities designed to assist students in their ability to analyze, evaluate and debate current law related public issues. The course is designed to provide practical information, knowledge, skills and problem-solving strategies to develop an understanding of citizenship, legal rights and social responsibilities, and for students to effectively participate in U.S. society.

**Psychology within Society****Course #5396***Grade Level:* 10-12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year elective (“g”) requirement for UC/CSU.

*Description:* This entry-level course introduces students to the systematic and scientific study of the behavior and mental processes of individuals and group behavior. Students will compare and contrast the major psychological paradigms, evaluate historical and sociological determinants, and know and perform various tests, measures, and assessments.

**Sociology****Course #5398***Grade Level:* 10-12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year elective (“g”) requirement for UC/CSU.

*Description:* This course is a one-year study of sociology designed to introduce students to the systematic and scientific study of effects of society on our individual personality and our personal impact on society at large. The course will cover topics such as group behavior, attitudes, prejudice, conformity, obedience, aggression and altruism. Students will also look at human development.

**U.S. History****Course #5280***Grade Level:* 11*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills U.S. History requirement*College Prep:* Fulfills one-year History (“a”) requirement for UC/CSU.

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

**World History****Course #5240***Grade Level:* 10*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills World History requirement*College Prep:* Fulfills one-year History (“a”) requirement for UC/CSU.

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

**Intro to Ethnic Studies****Course #5235**

*Grade Level:* 9  
*Length:* Semester  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:*

*Description:* Ethnic Studies aims to empower all students to engage socially and politically and to think critically about the world around them. Students will learn about the experiences of people of color in the United States in order for students to construct counter-narratives and develop a more complex understanding of the human experience. This course will focus on the experiences of African Americans, Asian Americans, Chicanas/os and Latinas/os, Native Americans, and other underrepresented demographics in the United States. We will analyze their contributions to the United States as well as their unique histories and quest for equality throughout our nation's history. The major purpose of this course is to educate students to be politically, socially, and economically conscious about their personal connections to local and national history. Ethnic Studies focuses on themes of social justice, social responsibility, and social change. The course spans from past to present, from politics to social reform, allowing students to identify similar social patterns and universal qualities present in other societies, including their own. This course will also include an Identity Section where students will consider concepts related to their own personal, group, and/or national identity.

**Ethnic Studies****Course #5230**

*Grade Level:* 10 - 12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills one-year elective ("g") requirement for UC/CSU.

*Description:* Ethnic Studies aims to empower all students to engage socially and politically and to think critically about the world around them. Students will learn about the experiences of people of color in the United States in order for students to construct counter-narratives and develop a more complex understanding of the human experience. This course will focus on the experiences of African Americans, Asian Americans, Chicanas/os and Latinas/os, Native Americans, and other underrepresented demographics in the United States. We will analyze their contributions to the United States as well as their unique histories and quest for equality throughout our nation's history. The major purpose of this course is to educate students to be politically, socially, and economically conscious about their personal connections to local and national history. Ethnic Studies focuses on themes of social justice, social responsibility, and social change. The course spans from past to present, from politics to social reform, allowing students to identify similar social patterns and universal qualities present in other societies, including their own. This course will also include an Identity Section where students will consider concepts related to their own personal, group, and/or national identity.

**Women's Studies in American History****Course #5277**

*Grade Level:* 10 - 12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* This course fulfills 10 units of elective credit and meets the UC/CSU "a" requirement.  
*College Prep:* Fulfills one-year elective ("g") requirement for UC/CSU.

*Description:* Women's Studies in American History: The focus of this course is the unique experience of women and their path toward societal advancement in American History. Discussion and examination of the experiences and contributions of diverse groups of women in American History and the comparison to women from a global perspective will occur. This course will study the social role of women from early America and indigenous peoples prior to 1492 through political activism and the impact women's studies have had on new fields of study in the twenty-first century.

**LMC-Philosophy of Political Theory-Fall**  
**LMC- Intro to Black Studies- Spring**

**Course #033**  
**Course #045**

*Grade Level:* 11-12

*Length:* 3 college credits/10 high school credits for each semester (must take both semesters)

*Prerequisite:* None

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one-year elective (“g”) requirement for UC/CSU.

*Description:* An introduction to the history and development of political theory and thought. The primary goal of this course is to examine various theoretical approaches to politics, basic political problems and proposed solutions, while analyzing historical theories in order to address contemporary problems. The course will proceed with an interdisciplinary and comparative approach to the study of primary texts and their authors in historical context. POLSC-033 meets the Social and Behavioral Sciences requirement.

Introduction to Black Studies takes an anti-racist approach to examining racial, ethnic, historical, political, social, and cultural issues, such as anti-blackness and policing of Black bodies, that affect Black, African American, Afro-Latinx, and people of African origin worldwide. Students will utilize an Ethnic Studies and interdisciplinary approach with a focus on Black academic and non-academic knowledge production. Students will acquire a deeper understanding and appreciation for the contributions that Black people have made to human civilization. The class will interrogate the intersections of race, ethnicity, nationality, gender, sexuality, class, ability, and mental health as they relate to Black experiences. The class meets requirement for Ethnic Studies transferring to CSU.

# **VISUAL and PERFORMING ARTS**

## **Advanced Art**

**Course #1520**

*Grade Level:* 11-12

*Length:* Year class (10 credits)

*Prerequisite:* A grade of B- or better in two semesters of Beginning Art. A grade of C or better in Intermediate Art. Approval of the instructor.

*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits

*College Prep:* Fulfills VAPA ("F") requirement for UC/CSU.

*Description:* Advanced Art furthers the student's knowledge, gained in Beginning Art and Intermediate Art, of design concepts, harmonious relationships among line, value, color, texture, and form. The student will use a variety of techniques and various recourses including written information to gain a greater knowledge of art history and aesthetics. Students will also be required to create a portfolio. May be repeated for credit.

## **AP Art History**

**Course #1575**

*Grade Level:* 10-12

*Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits

*College Prep:* Fulfills one-year VAPA ("F") requirements for UC/CSU. Students will receive an extra grade point bonus for grades A-C.

*Description:* AP Art History is an intensive course for students interested in the effect of art on our world.

Students will participate in critiques and discussions of masterpieces. A research paper and field trip to a museum or gallery will facilitate the student's understanding of art as history. Serious students with strong writing skills should be able to pass the advanced placement exam for college credit.

## **AP Studio Art 3D**

**Course #1577**

*Grade Level:* 10-12

*Length:* Year class (10 credits)

*Prerequisite:* Ceramics I or 3-D Design, and Highly Recommended to have taken Ceramics 2 or Advanced 3-D; also, by Instructor approval.

*Description:* AP Studio Art class is a studio class that expands student's artistic skills, encouraging them to explore a theme, or area of interest to refine their individual skills in 3-D Design. Through the process of discovery students will need to make informed decision-making skills while creating a body of work that demonstrates a high level of quality and growth over the year through technique, content, and process. Three main components need to meet: Breadth, Concentration, and Quality, in meeting these components students will need to develop their mastery in a concept, composition, and execution to be successful. Students will need to submit a portfolio showing their studies to the College Board at the end of year. Students are expected to take the preliminary classes before entering AP Studio Art, in order to develop their skills in art. After one year in Ceramics or 3-D Design class students then have the option to move into the advanced classes or move straight into the AP level. It is highly recommended and encouraged that all students take the advanced level classes and the AP class concurrently, and all work from both has the potential to be used within the AP Portfolio. Only original artwork is allowed in the portfolio. No copies from published photographs, and any photographed used must have been taken from the student in order to explore their idea, theme, or concept. The 3-D AP Studio Art are expected to take Ceramics and create works in the following: Coil- Creating a sculpture that is made out of coils, breaking away from the stereotypical coiled pot, emphasizing surface quality. Slab- Using the concept of Spatial Relationships in an Abstract geometric sculpture. Figure- Study of the human figure in additive, and subtractive techniques. Wheel- The ability to throw a pot from the wheel Slump Mold- Create a set of bowls from a slump mold that show patterns and repetition. Alternative Media- At least two works has to be made out of some other media besides clay. Students base the sculpture on a concept (Movement, Texture, Positive & Negative Space. ) and are required to use a variety of media found around school, or at home. Students are not limited or required to just use ceramic works in their portfolios. Students may opt to create works in their concentration out of other media. Ceramic work needs to be demonstrated in their Breadth section.

**AP Studio Art 2D****Course #1578***Grade Level:* 10–12*Length:* Year class (10 credits)*Prerequisite:* Beginning Art, Highly Recommended to have taken Intermediate Art, or Advanced Art, or to be signed up in Advanced Art concurrently; also, by Instructor approval.*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Fulfills one-year VAPA (“f”) requirements for UC/CSU. Students will receive an extra grade point bonus for grades A-C. Language requirement or elective credits Fulfills one-year VAPA (“f”) requirements for UC/CSU. Students will receive an extra grade point bonus for grades A-C.*Description:* AP Studio Art class is a studio class that expands student’s artistic skills, encouraging them to explore a theme, or area of interest to refine their individual skills in design. Through the process of discovery students will need to make informed decision-making skills while creating a body of work that demonstrates a high level of quality and growth over the year through technique, content, and process. Three main components need to met: Breadth, Concentration, and Quality, in meeting these components students will need to develop their mastery in a concept, composition, and execution to be successful.

Students will need to submit a portfolio showing their studies to the College Board at the end of year. Students are expected to take the preliminary classes entering AP Studio Art, in order to develop their skills in art. After one year in the beginning art class students then have the option to move into the advanced classes or move straight into the AP level. It is highly recommended and encouraged that all students take the advanced level classes and the AP class concurrently, and all work from both has the potential to be used within the AP Portfolio. Only original artwork is allowed in the portfolio. No copies from published photographs, and any photographed used must have been taken from the student in order to explore their idea, theme, or concept. 2-D Design Portfolio- Students will expand their drawing skills and their visual communication skills by exploring a variety of media, techniques, composition, and aesthetic concepts. The basic requirements for the Drawing portfolio is the inclusion of work that demonstrates basic composition, knowledge of the Elements and Principles, a variety of media, mark making and at least one work in the following themes: Self Portrait- A study from life of their image in any medium. Still Life- Looking for composition and utilizing positive and negative space, different surface qualities, and effects of light. Out Door Drawing- Showing skills in observation, aerial, and atmospheric perspectives. The effects of light and color. Indoor Drawing- Showing skills in linear perspective and dramatic lighting. Also showing compositional knowledge. Figure Drawing- Knowledge of the human body- unclothed and clothed, understanding contrapposto, and foreshortening. (Students are encouraged to take the free Saturday figure drawing classes at the Dean Lescher Center for the arts or at the College of Arts and Crafts, Figure Study sessions for high school students. These are the types of projects emphasized in the earlier classes in art.

**Art of Video Production****Course #6182***Grade Level:* 10 -12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.*Description:* Video Production is an introductory course which provides the student with the necessary skills and a background for producing video programs and enhances the students’ research, communication and teamwork skills. Students will research ideas, develop a script, create a story board, learn to operate digital camera equipment in production and use post production equipment to edit and create a finished tape. Projects will be created in digital format from camera, to editing, to final projects on DVD. Students will also have an opportunity to learn basic television/studio techniques by creating television programs for school wide broadcast. At the end of the term students will learn how to author (create) a DVD that contains all work completed and take home the finished DVD.**Beginning Art****Course #1506***Grade Level:* 9 - 12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.*Description:* A standards-based class for beginning art students. Previous art experience is not necessary. The students will use a wide variety of materials to create art projects; e.g. pencils, charcoal, ink, colored pencils, acrylic paint, watercolors, chalk and oil pastels. Included in the first 9 weeks will be an introduction to the elements and principles of art, contour line drawing, value and contrast, color theory, and painting. Included in the second 9 weeks will be painting, printmaking, an introduction to sculpture and graphic design, still life drawing, portraiture and perspective

**Ceramics I****Course #1831**

*Grade Level:* 10-12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills Fine Arts/World Language Requirement or elective credits  
*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.  
*Description:* This Ceramics course will cover the basic hand building methods and decorative techniques. Creative design and individual expression will be emphasized through functional projects. Students will gain an appreciation of historical and contemporary ceramics.

**Ceramics II****Course #1832**

*Grade Level:* 11-12  
*Length:* Year class (10 credits)  
*Prerequisite:* Ceramics I  
*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits  
*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.  
*Description:* The Ceramics II course will cover the complex hand building methods, wheel methods and decorative techniques. Creative design and individual expression will be emphasized through functional (abstract) projects. Students will expand on their appreciation of historical and contemporary ceramics.

**Design I****Course #1521**

*Grade Level:* 9 -12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills one-year Fine Arts graduation requirement  
*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.  
*Description:* This course will offer students the opportunity to explore different aspects of the design industry. Students will learn basic design principles, experiment with different materials, solve design problems and create a variety of projects related to design. Assignments include book covers, CD packages, food packaging, fashion design and poster design.

**Design II****Course #1522**

*Grade Level:* 10 -12  
*Length:* Year class (10 credits)  
*Prerequisite:* Design I  
*Graduation:* Fulfills one-year Fine Arts graduation requirement  
*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.  
*Description:* Students will begin with intensive figure drawing while researching various mythological archetypes (heroes, villains, mentors and more) from a variety of world cultures. Students will create their own individual heroes and villains complete with detailed profiles and stories of origin. Students will explore traditional comics as well as Manga, resulting in a graphic novel project. Students will work to design costumes for their specific character using traditional materials as well as computer technology. The final product will be a movie trailer where student through the art of video, will bring the characters to life.

**Design III****Course #1543**

*Grade Level:* 11-12  
*Length:* Year class (10 credits)  
*Prerequisite:* Design II  
*Graduation:* Fulfills one-year Fine Arts graduation Requirement  
*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.  
*Description:* This is an advanced level class where students will use skills learned in previous design courses to create motion graphics advertising events and programs on campus, explore more advanced levels of video game design, and hone their skills in Adobe Illustrator, Adobe Photoshop and other Adobe products to prepare for internships/clients during their Senior year.

**Intermediate Art****Course #1516**

*Grade Level:* 10 - 12  
*Length:* Year class (10 credits)  
*Prerequisite:* Successful completion of Beginning Art and/or approval of the instructor.  
*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits  
*College Prep:* Fulfills one-year VAPA (“f”) requirement for UC/CSU.  
*Description:* A standards-based class, Intermediate Art expands concepts and skills gained in Beginning Art. Such as design concepts and harmonious relationships between line, value, color, texture, and form. The student will use a wide variety of techniques and materials to create individual projects. Examples of assignments are figure drawing, still life, self-portrait, company logo, advertising design.

**Introduction to Art History****Course #1573***Grade Level:* 9-12*Length:* Year class (10 credits)*Prerequisite:* None*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Fulfills VAPA ("F") requirement for UC/CSU.*Description:* This course is designed for any student that loves Art, but may not have the drawing or painting skills to feel comfortable in a traditional art program. This introductory course will explore Art History from the Prehistoric through the Modern Times through art projects, research papers, slides, videos and group presentations.

Students that are interested in architecture, archeology, art criticism, painting, sculpture, geography and religious studies will enjoy this course. Students interested in taking AP Art History are encouraged to take this introductory course.

**AP Music Theory****Course #6068***Grade Level:* 10 -12*Length:* Year class (10 credits)*Prerequisites:* Must be proficient in music reading*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Does not apply.*Description:* This course designed to prepare students for the Advance Placement Music Theory Exam. The focus is in developing sensitivity to the expressive quality of music and musical sounds. You will develop awareness and understanding of the styles, idioms, performance media, and purposes of music.**Acting and Directing Workshop****Course #6190***Grade Level:* 10-12*Length:* Year Class (10 credits) (May be repeated up to 20 credits)*Prerequisites:* Theatre Arts I and successful completion of entrance requirements (audition, testing and interview)*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Fulfills one-year VAPA ("F") requirement for UC/CSU.*Description:* This is an advanced level course designed to provide instruction and experience for students who wish to bring the proficiency of their theatre skills to an advanced level. Students will participate in a variety of performance experiences. This course will enhance the district community by raising the aesthetic appreciation of the arts and reinforcing the value of the arts to society.**Concert Band****Course #6016***Grade Level:* 9-12*Length:* Year class (10 credits); May be repeated for credit*Prerequisite:* Permission of instructor*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Fulfills one-year VAPA ("F") requirement for UC/CSU.*Description:* Concert Band is an instrumental music class designed to provide students with a source of aesthetic appreciation and enjoyment as well as an experience in ensemble playing. Students must be able to play with a moderate degree of skill and show consistent improvement in their abilities. A number of extra-curricular performances are a required part of this course.**A Capella Choir****Course #6092***Grade Level:* 9-12*Length:* Year class (10 credits); May be repeated for up to 20 credits*Prerequisite:* Men's/Women's Chorus and/or audition/permission of instructor*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits*College Prep:* Fulfills VAPA ("F") requirement for UC/CSU.*Description:* A Cappella Choir is an intermediate choral music class designed for singers with significant vocal/choral experience. Emphasis is on intermediate musicianship, vocal/choral experience and vocal/choral technique. Participation in performances of the A Cappella Choir is mandatory.**Jazz Band (Beginning)****Course # 6035***Grade Level:* 9-12*Length:* Year class (10 credits; Entry at semester with permission of instructor*Prerequisite:* Concurrent enrollment in Symphonic Band, Concert Band, or Orchestra and permission of instructor.*Graduation:* Fulfills one year of Fine Arts graduation requirement or elective credits*College Prep:* Fulfills VAPA ("F") requirement for UC/CSU.*Description:* Jazz Band is an introductory instrumental music and theory class designed to provide the basic theory, technique and knowledge of performance practices and concepts of various styles of Jazz music. This basic ability will

provide a beginning source for aesthetic enjoyment and performance abilities. Students will be given the opportunity to learn all modes of scales used in the Jazz styles. Emphasis will be given to learning to play in a ‘swinging’ style, in each mode, and basic improvisational techniques within those modes. There will be a minimum of 2 concert performances per year. This class is a pre- requisite to the advanced Jazz Ensemble.

### **Jazz Band 2 (Intermediate)**

**Course # 6028C**

See CTE section of course catalog for course description.

### **Jazz Band (Advanced)**

**Course # 6037**

*Grade Level:* 9-12

*Length:* Year class (10 credits)

*Prerequisite:* Concurrent enrollment in Symphonic Band, Concert Band, or Orchestra and/or permission of instructor.

*Graduation:* Fulfills one year of Fine Arts graduation requirement

*College Prep:* Fulfills VAPA (“F”) requirement for UC/CSU.

*Description:* Jazz band 1 is an introductory instrumental music and theory class designed to provide the basic theory, technique and knowledge of performance practices and concepts of various styles of Jazz music. This basic ability will provide a beginning source for aesthetic enjoyment and performance abilities. Students will be given the opportunity to learn all modes of scales used in the Jazz styles. Emphasis will be given to learning to play in a ‘swinging’ style, in each mode, and basic improvisational techniques within those modes. There will be a minimum of 2 concert performances per year. This class is a pre- requisite to the advanced Jazz Ensemble.

### **Percussion Ensemble Studies**

**Course #6046C**

See CTE section of course catalog for course description

### **Advanced Percussion Ensemble Studies**

**Course #6048C**

See CTE section of course catalog for course description

### **Introduction to Music**

**Course #6066**

*Grade Level:* 9–12

*Length:* Semester class (5 credits)

*Prerequisite:* None

*Graduation:* Elective credits

*College Prep:* Does not apply

*Description:* Intro to Music is designed for students with little or no formal training in music that desire to learn to read music notation and try various musical outlets of performance including singing and instrument playing. This course will focus on building music foundation skills in reading music notation (pitch and rhythm) through written study and practical application of skills using singing, rhythm games, pitched percussion instruments and other instruments. Solfege (Do, Re, MI) skills will be learned to build sight reading and sight singing skills necessary to progress in further music classes. Students will explore an overview of the various types of musical performing groups, genres, and career pathways available in the field of music.

### **Music Theory and Technology**

**Course #6198C**

See CTE section of course catalog for course description

### **Orchestra**

**Course #6036**

*Grade Level:* 9–12

*Length:* Year class (10 credits); Entry at semester with permission of instructor; May be repeated for credit

*Prerequisite:* Permission from instructor.

*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits

*College Prep:* Fulfills one-year VAPA (“F”) requirement for UC/CSU.

*Description:* Orchestra is an advanced instrumental music class designed to provide students with a source of aesthetic enjoyment and instruction in practice and performance of the various styles of classical literature composed primarily for (but not limited to) the orchestral stringed instruments. Students must be able to play with a high degree of skill and show consistent improvement in their abilities. A number of extra-curricular performances are a required part of this course.

### **Screenwriting**

**Course #6192**

*Grade Level:* 11-12

*Course Length:* Year class (10 credits)

*Prerequisite:* None

*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits

*College Prep:* Does not apply

*Description:* Students will sharpen their critical and analytical skills by participation in class discussions/critiques of the work of both professional screenwriters and peers.

Students will foster the development of a critical vocabulary and approach in order to better evaluate screenplays, and to articulate their own aesthetic tastes in a positive manner. Students will develop the ability to talk and write perceptively and articulately about screenplays, both professional and student-generated.

### **Select Singers (Chamber)**

**Course #6100**

*Grade Level:* 9 – 12  
*Length:* Year class (10 credits); May be repeated for up to 40 credits  
*Prerequisite:* Permission of Instructor  
*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits  
*College Prep:* Fulfills one-year VAPA (“P”) requirement for UC/CSU.  
*Description:* Select Singers is an advanced choral music class designed for singers displaying a high degree or vocal/choral experience and skill. Emphasis is on more advanced facets of musicianship, vocal/choral production and vocal/choral technique. Participation in performances of the Select Singers are mandatory.

### **Symphonic Band**

**Course #6020**

*Grade Level:* 10 - 12 (9<sup>th</sup> grade by audition only)  
*Length:* Year class (10 credits); may repeat for credit  
*Prerequisite:* Concert Band and/or permission of instructor  
*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits  
*College Prep:* Fulfills VAPA (“P”) requirement for UC/CSU.  
*Description:* Designed to provide students with a source of aesthetic enjoyment and an experience in advanced ensemble playing. Students must be able to play with a high degree of skill and show consistent improvement in their abilities. A number of extra-curricular performances are a required part of this course.

### **Theatre Arts I**

**Course #6104**

*Grade Level:* 9–12  
*Length:* Year class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits  
*College Prep:* Fulfills one-year VAPA (“P”) requirement for UC/CSU  
*Description:* This is an introductory course giving students a survey of various aspects of theatre and drama. Students will learn about theatre history, a theatre environment, basic movement and vocal techniques and the design process. Successful completion of this course will enable students to take Theatre Arts II and Theatre Production and Stagecraft I.

### **Theatre Arts II**

**Course #6166**

*Grade Level:* 10 - 12  
*Length:* Year class (10 credits)  
*Prerequisite:* Theatre Arts I and successful completion of entrance requirements (audition, testing and interview)  
*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits  
*College Prep:* Fulfills one-year VAPA (“P”) requirement for UC/CSU.  
*Description:* This course is designed to provide instruction and experience for students who wish to become proficient in theatre vocabulary and techniques through a variety of performance experiences, writing activities and research projects. Successful completion of this course and successful completion of placement requirements (audition, testing and interview) will enable students to take Theatre Arts III

### **Theatre Arts III**

**Course #6176**

*Grade Level:* 10 - 12  
*Length:* Year class (10 credits)  
*Prerequisite:* Theatre Arts I, Theatre Arts II and successful completion of entrance requirements (audition, testing and interview)  
*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits  
*College Prep:* Fulfills one-year VAPA (“P”) requirement for UC/CSU.  
*Description:* This course is designed to provide instruction and practice for students who wish to refine their acting skills. Students will learn to create characters through theater games, improvisation, monologues and scene work. Units for this course will include advanced stage make-up techniques, performance resumes and performances with an emphasis on 20th century drama.

**Wind Ensemble****Course #6047**

*Grade Level:* 11 - 12 (10<sup>th</sup> grade by teacher approval)

*Length:* Year class (10 credits); may repeat for credit

*Prerequisite:* Concert Band or Symphonic Band and/or permission of instructor

*Graduation:* Fulfills Fine Arts/World Language requirement or elective credits

*College Prep:* Does not apply

*Description:* Wind Ensemble is an advanced instrumental music class designed to provide students with a source of aesthetic enjoyment and an experience in advanced ensemble playing. Students must be able to play with a high degree of skill and show consistent improvement in their abilities. A number of extra-curricular performances are a required part of this course.

**Beginning Ukulele****Course #6067**

*Grade Level:* 9 - 12

*Length:* Year class (10 credits); may repeat for credit

*Prerequisite:* None

*Graduation:* Fulfills Fine Arts or elective credits requirement

*College Prep:* Fulfills one-year VAPA ("f") requirement for UC/CSU.

*Description:* Ukulele will provide instruction for students around the history, technique, and ensemble playing. The course will be split into several units that cover various aspects of understanding the instrument and the music that can be created with the Ukulele. Students will be led through a routine of tuning their ukuleles, warming-up, group instruction, and independent group practicing and playing. Students will also learn basic maintenance of the instrument and how to change strings, clean the ukulele's surface, clean strings, and maintain tuning. This course will also provide an opportunity to learn to read music while playing both chords and melodies.

# WORLD LANGUAGES

## **SIGN-050 Elementary American Sign Language I**

*Grades:* 11 & 12

*Length:* Fall Semester

*Prerequisite:* None

*Graduation:* Fulfills World Language requirement or elective credits

*College Prep:* Does not apply. Students will receive an extra grade point bonus for grades A-C.

*Description:* An intensive visual/finger/hand/ signing approach to understanding and communicating in American Sign Language as it is used in the United States, and other English-speaking cultures. The content used in learning the language is drawn from the rich deaf and hearing cultures of the United States. This is part one of a two-part elementary American Sign Language program.

**Course #0739**

LOS MEDANOS  
COLLEGE

## **SIGN-051 Elementary American Sign Language II**

*Grades:* 11 & 12

*Length:* Spring Semester

*Prerequisite:* SIGN-050 Elementary American Sign Language I

*Graduation:* Fulfills World Language requirement or elective credits.

*College Prep:* Does not apply. Students will receive an extra grade point bonus for grades A-C.

*Description:* A continuation intensive visual/finger/hand/ signing approach to understanding and communicating in advanced American Sign Language level II as it is used in the United States, and other English-speaking cultures. The content used in learning the language is drawn from the rich deaf and hearing cultures of the United States. Sign-051 is the continuation of Sign-050 of a four-semester series of receptive and expressive skills signing in the United States and other English-speaking cultures.

**Course #0740**

LOS MEDANOS  
COLLEGE

## **AP Spanish 4 – Language & Culture**

*Grades:* 11 & 12

*Length:* Year class (10 credits)

*Prerequisite:* Spanish 3 or 4

*Graduation:* Fulfills Elective Requirements.

*College Prep:* Does not apply. Students will receive an extra grade point bonus for grades A-C.

*Description:* This course is an advanced Spanish course for students who have satisfactorily completed Spanish 3 or 4. Students will prepare for the AP exam by speaking and writing in Spanish. Students in the AP Spanish Language and Culture course demonstrate an understanding of the culture(s), incorporate interdisciplinary topics (Connections), make comparisons between the native language and the target language and between cultures (Comparisons), and use the target language in real-life settings (Communities). Students will use Spanish as the language of communication in the class.

**Course #3642**

## **French 1**

*Grade Level:* 9 -12

*Length:* Year class (10 credits)

*Prerequisite:* none

*Graduation:* Fulfills Fine Arts/World Language requirement

*College Prep:* Fulfills one year of World Language(“e”) requirement for UC/CSU.

*Description:* French 1 is a college-preparatory course that introduces students to the French language and culture. The course emphasizes basic communication skills, vocabulary building, reading and writing. Colleges will not acknowledge courses completed with less than a C grade.

**Course #3510**

## **French 2**

*Grade Level:* 10 -12

*Length:* Year class (10 credits)

*Prerequisite:* French 1 or teacher approval

*Graduation:* Fulfills Fine Arts/World Language requirement

*College Prep:* Fulfills one year of World Language (“e”) requirement for UC/CSU.

*Description:* French 2 allows students to communicate more fully in oral and written French. Students may have the opportunity to expand their communications skills through interviews, oral presentations and an e-mail correspondence with French classes in the U.S.A. and the world. A grade C or better in previous French class will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

**Course #3520**

**French 3****Course #3530***Grade Level:* 10 -12*Length:* Year class (10 credits)*Prerequisite:* French 2*Graduation:* Fulfills Fine Arts/World Lang. requirement*College Prep:* Fulfills one year of World Language (“e”) requirement for UC/CSU.

*Description:* French 3 challenges students to speak, read and write at more advanced levels. Students, via internet, may have the opportunity to visit French-speaking areas such as Africa, Canada, France, Switzerland, and Tahiti. Students are encouraged to speak and write with greater fluency and detail. French is spoken most of the time in class. A grade C or better in previous French class will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

**French 4****Course #3540***Grade Level:* 10 -12*Length:* Year class (10 credits)*Prerequisite:* French 3*Graduation:* Fulfills Fine Arts/World Lang. requirement*College Prep:* Fulfills one year of World Language (“e”) requirement for UC/CSU.

*Description:* French 4 will continue expanding students’ ability to communicate in the target language. Students will continue increasing their vocabulary and reading and writing skills. They will also continue to learn more about the culture of the countries where the language is spoken. The cultural content is interwoven in all aspects of language development. Colleges will not acknowledge courses completed with less than a C grade.

**Spanish for Native Speakers 2****Course #3676***Grade Level:* 9 - 12*Length:* Year class (10 credits)*Prerequisite:* Native/Fluent Speaker*Graduation:* Fulfills Fine Arts/World Language requirement for UC/CSU.*College Prep:* Fulfills one year of World Language (“e”) requirement for UC/CSU.

*Description:* Spanish for Native Speakers 2 is a course designed for students that are fluent speakers in intermediate Spanish but need further development of academic Spanish. The emphasis of this course will be on vocabulary development, listening comprehension, grammar, reading and writing skills at an intermediate level. Students will continue to develop their reading and analytical skills in literature.

**Spanish 1****Course #3610***Grade Level:* 9 - 12*Length:* Year class (10 credits)*Prerequisite:* none*Graduation:* Fulfills Fine Arts/World Language requirement*College Prep:* Fulfills one year of World Language (“e”) requirement for UC/CSU.

*Description:* Spanish 1 is an introduction to Spanish emphasizing basic vocabulary, grammar and sentence structure. Learning the basics of speaking and writing in Spanish could be integral to securing a better job in the future. It can also make travel in Spanish-speaking countries more enjoyable. Colleges will not acknowledge courses completed with less than a C grade.

**Spanish 2****Course #3620***Grade Level:* 9 - 12*Length:* Year class (10 credits)*Prerequisite:* Spanish 1 or teacher approval *Graduation:* Fulfills Fine Arts/World Language requirement*College Prep:* Fulfills one year of World Language (“e”) requirement for UC/CSU.

*Description:* Spanish 2 students continue to practice speaking, reading, and writing in Spanish. They learn some practical conversational skills as well as learn about some countries and cultures where Spanish is spoken. Students may be asked to keep journals with short entries and incorporate what they have learned into short essays. A grade C or better in previous Spanish class will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

**Spanish 3****Course #3630***Grade Level:* 10 - 12*Length:* Year class (10 credits)*Prerequisite:* Spanish 2*Graduation:* Fulfills Fine Arts/World Language requirement*College Prep:* Fulfills one year of World Language ("e") requirement for UC/CSU.

*Description:* Students are challenged to read, write, and speak at more advanced levels. They read short stories and excerpts from Hispanic literature. They also write original compositions and conversations in Spanish, which may include informal productions of skits or the keeping of a journal. Hispanic culture is also interwoven into the course for greater cross-cultural understanding. Some new grammar is introduced and previously learned grammar is strongly reinforced. A grade C or better in previous Spanish class will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

**Spanish 4****Course #3640***Grade Level:* 10 - 12*Length:* Year class (10 credits)*Prerequisite:* Spanish 3 or literate native speaker.*Graduation:* Fulfills Fine Arts/World Language requirement*College Prep:* Fulfills one year of World Language ("e") requirement for UC/CSU.

*Description:* Spanish 4 is an advanced course in which students attain intermediate level in speaking, reading, and writing in Spanish. This course includes a brief review of all previously learned grammar. Using art as well as authentic literature as vehicles for language acquisition, students develop their linguistic abilities and enrich their cultural understanding. Field trips reinforce what has been studied in class. This allows students to connect the classroom to the outside world thereby validating what they study and making it relative to contemporary society. A grade C or better in previous Spanish class will assure greater success in this class. Colleges will not acknowledge courses completed with less than a C grade.

# **NON-DEPARTMENTAL**

Air Force Junior Reserve Officer Training Corps: AFJROTC is a leadership and citizenship program, military service is not a requirement of this class. AFJROTC is a mix of Aerospace Science, Leadership Education, Fitness, Uniform Wear and Military Drill as well as extensive co-curricular and community service opportunities open only to JROTC cadets.

**JROTC has a four-year rotating curriculum, students may join at the start of any school year regardless of grade.**

## **Air Force JROTC 1**

**Course #7201**

*Grade Level:* 9- 12

*Length:* Year class (10 Credits)

*Prerequisite:* None

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*Description:* Aerospace Science 1: An aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. Throughout the course, there are readings, videos, hands-on activities, and in-text and student workbook exercises to guide in the reinforcement of the materials.

Leadership Education 1: A Leadership course introduces cadets to the Air Force Junior Reserve Officer Training Corps (AFJROTC) program providing a basis for progression through the rest of the AFJROTC program while instilling elements of good citizenship. It contains sections on cadet and Air Force organizational structure; uniform wear; customs, courtesies, and other military traditions; health and wellness; fitness; individual self- control; and citizenship.

## **Air Force JROTC 1/PE 10**

**Course #7201P**

*Grade Level:* 10 - 12

*Length:* Year class (10 Credits)

*Prerequisite:* Completion of PE 9

*Graduation:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*Description:* PE 10 credit option (in lieu of elective credit) available to grades 10 - 12 only. See full course description listed for course 7201 – AFJROTC 1.

## **Air Force JROTC 2: The Science of Flight**

**Course #7202**

*Grade Level:* 9 -12

*Length:* Year class (10 Credits)

*Prerequisite:* None

*Graduation:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*College Prep:* Does not apply

*Description:* Aerospace Science 2: The Science of Flight: A Gateway to New Horizons is an introductory course and customized textbook that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science-related courses and is aligned with the National Science Education Standards, the Math Standards and Expectations, and ISTE National Educational Technology Standards for Students.

Leadership Education 2: Leadership Education 200 stresses communications skills and cadet corps activities. Much information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches compliment the academic materials. Cadet corps activities include holding positions of greater responsibility in the planning and execution of corps projects.

## **Air Force JROTC 2: The Science of Flight/PE 10**

**Course #7202P**

*Grade Level:* 10 -12

*Length:* Year class (10 Credits)

*Prerequisite:* Completion of PE 9

*Graduation:* Fulfills 2nd year of PE requirement

*College Prep:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*Description:* PE 10 credit option (in lieu of elective credit) available to grades 10 - 12 only. See full course description listed for course 7202 – AFJROTC 2.

## **Air Force JROTC 3: Exploring Space**

**Course #7204**

*Grade Level:* 9 -12

*Length:* Year class (10 Credits)

*Prerequisite:* None

*Graduation:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*College Prep:* Does not apply

*Description:* Aerospace Science 3: Exploring Space curriculum provides an overview of the Earth, Sun, Stars, Moon, and solar system, including the terrestrial and the outer planets. The section on manned spaceflight focuses on the Space Shuttle, space stations and beyond, covering milestones in the endeavor to land on the Moon and to safely orbit humans and crafts for temporary and prolonged periods.

Leadership Education 3: The Leadership Education portion of the course will allow students reveal their attitudes, aptitudes, and personal skills. This self- understanding will allow them to explore career paths and understand requirements that they will need to be successful at work and in life. To help students increase their potential for success through education, they will learn how to select a school that is right for them; how to apply for admission to a vocational or technical school, community college, or college/university; and how to succeed in these learning environments. Information is provided on how to conduct the job search for students who wish to enter the workforce right after high school or after additional education and training. They will learn how to prepare a winning résumé, and how to develop effective interviewing skills.

**Air Force JROTC 3: Exploring Space/PE 10**

**Course #7204P**

*Grade Level:* 10 -12

*Length:* Year class (10 Credits)

*Prerequisite:* Completion of PE 9

*Graduation:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*College Prep:* Does not apply

*Description:* PE 10 credit option (in lieu of elective credit) available to grades 10 - 12 only. See full course description listed for course 7204 – AFJROTC 3.

**Air Force JROTC 4: Survival and Return**

**Course #7205**

*Grade Level:* 9 -12

*Length:* Year Class (10 Credits)

*Prerequisite:* None

*Graduation:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*College Prep:* Does not apply

*Description:* Aerospace Science 4: The Aerospace Science portion of the course focuses on basic survival skills. It will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. Survival also presents “good to know” information that would be useful in any situation. The information is just as useful to an individual lost hunting or stranded in a snowstorm.

Leadership Education 4: This Leadership Education portion of the course provides exposure to the fundamentals of project and people management. The course contains many leadership topics such as the techniques and skills involved in planning and decision making; the importance of managing change, stress, and innovation; the key elements of individual and group behavior; the importance of the communication process; and the characteristics of a good leader.

**Air Force JROTC 4: Survival and Return/PE 10**

**Course #7205P**

*Grade Level:* 9-12

*Length:* Year class (10 Credits)

*Prerequisite:* Completion of PE 9

*Graduation:* Fulfills 2nd year of PE requirement

*College Prep:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*Description:* PE 10 credit option (in lieu of elective credit) available to grades 10 - 12 only. See full course description listed for course 7205 – AFJROTC 4.

**Honors AFJROTC: Cadet Staff Leadership and Management with Research Project**

**Course #7206**

*Grade Level:* 12

*Length:* Year Class (10 Elective/Honors Credit)

*Prerequisite:* 2 years of Air Force JROTC, Application

*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one year of Elective credit (“g”) requirement for UC/CSU.

*Description:*

Honors Air Force JROTC is advanced leadership, management and national security studies course that builds upon JROTC lessons learned from 2-3 years of previous coursework. This course is a mentor guided self-paced practical application course that requires cadets to work as a team to manage the Corps of Cadets, complete a national leadership certification exam and a research paper or project on a leadership or national security topic.

**AP Seminar****Course #3174***Grade Level:* 10 - 11*Length:* Year class*Prerequisite:* Taken at least one AP course in 9<sup>th</sup> or 10<sup>th</sup> grade, or taking concurrently (*Recommended*)*Graduation:* Fulfills elective credits*College Prep:* Fulfills one year of English (“b”) requirement for UC/CSU.

*Description:* AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues through analysis of divergent perspectives. The student will utilize inquiry framework to include: reading and analyzing articles, research studies, foundational/literary/philosophical texts, listening and viewing speeches/broadcasts/personal accounts, and experiencing artistic works/performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral/visual presentations. This course provides students with the skills to analyze and evaluate information and evidence-based arguments with accuracy

**AP Research****Course #3176***Grade Level:* 11 - 12*Length:* Year class*Prerequisite:* Students must have successfully completed the AP Seminar Course*Graduation:* Fulfills elective credits*College Prep:* Fulfills one year of elective (“g”) requirement for UC/CSU.

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

**COUNS 032: Introduction to Career Exploration***Grade Level:* 11-12*Length:* Semester class (5 Credits) offered 1<sup>st</sup> semester ONLY – After School*Prerequisite:* none*Graduation:* Fulfills elective credits; Dual Enrollment 1.5 units*College Prep:* Does not apply; Dual Enrollment with Los Medanos College.

*Description:* This course is an intense career exploration designed to engage students in their own career development. Topics include how to realistically assess, review, and interpret various area such as interests, attitudes, values, priorities, skills and strengths, goals, and a career options in the current job market. This course also covers financial literacy.  
LMC: Degree Applicable; Transfer: CSU


 LOS MEDANOS  
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**COUNS 034: College Success***Grade Level:* 12*Length:* Semester class (5 Credits) offered 2<sup>nd</sup> semester ONLY – After School*Prerequisite:* none*Graduation:* Fulfills elective credits; Dual Enrollment 1.5 units*College Prep:* Does not apply; Dual Enrollment with Los Medanos College.

*Description:* This course is designed to help students develop critical thinking skills and personal confidence necessary to succeed in college. Topics will include problem solving techniques, learning styles, time management, goal setting, study skills and test taking strategies, stress management and LMC support services.

LMC: Degree Applicable; Transfer: CSU


 LOS MEDANOS  
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**Driver Education/Decision Making**      **Course #2820 (15 ½ by Dec 16, 2026) or Course #2830 (15 ½ by June 2, 2027)**

*Grade Level:* 9 – 12  
*Length:* Semester Class (5 credits)  
*Prerequisite:* Age 15 by end of Semester  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* The students learn to become safe, defensive and responsible drivers within the transportation system by studying the vehicle code and safe driving practices in order to obtain certification to take the California DMV written exam. Decision Making: The students complete personality profiles and explore career pathways and education choices that will lead to satisfying and successful careers. Students also learn how to use the Career Center.

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

*Grade Level:* 9 -10  
*Length:* Semester class (5 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* This course focuses on skills for freshmen students to navigate high school effectively. Course contents include strategic reading strategies, study skills, time management, note taking and organizational skills. Students participate in career exploration and planning.

**Health****Course #2700**

*Grade Level:* 9  
*Length:* Semester class (5 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills Health requirement  
*College Prep:* Fulfills one semester elective (“g”) requirement for UC/CSU.  
*Description:* This course is designed to help students examine their lifestyles, select goals, and make plans to achieve and maintain optimum health. The course focuses on choosing behaviors, which help prevent illness and accidents, promote health for ones’ self and others, and improve the quality of the environment. The course promotes responsible decision-making and provides students with life management skills they can use for the rest of their lives.

**Introduction to Student Govt & Leadership****Course #7488**

*Grade Level:* 9  
*Length:* Semester Class (10 credits)  
*Prerequisite:* None  
*Graduation:* Fulfills elective credits  
*College Prep:* Does not apply  
*Description:* The introduction to Student Government and Leadership is designed to provide a strong foundation and the necessary training to better assume the responsibilities required of student leaders. Students will be introduced to the skills and characteristics of effective leadership. Students will learn the event planning process from start to finish, with emphasis placed on reflection and follow through. Students will be introduced to concepts needed to participate and understand student government, providing an avenue for learning and interpreting the Constitution and By-laws of the Associated Students. The course will prepare students for participation in one of the upper level leadership courses, ASB Leadership, Link Crew Leadership or PLUS Leadership.

**Leadership PLUS****Course #7487**

*Grade Level:* 11 - 12  
*Length:* Year class (10 credits); May repeat  
*Prerequisite:* By application process only  
*Graduation:* Fulfills elective credits  
*College Prep:* Fulfills one semester elective (“g”) requirement for UC/CSU.  
*Description:* PLUS is a youth facilitated class that utilizes social leadership qualities to connect all students on a campus. A diverse cross section of student leaders who facilitate a series of activities that create communication, connections, care and community amongst a student body. Utilizing best practice strategies, the PLUS Team student leaders serve as the liaison between the student body and the adults on a campus. PLUS is a student-centered mentoring class, focusing on connecting the student body to the campus to strengthen the climate and culture of the school. This class engages, develops and trains students to be leaders and mentors through the implementation of monthly leader-led forums. The class uses survey data from students and solicits input from a cross section of the campus to come up with solutions to issues and problems on campus.

**Link Crew****Course #7482***Grade Level:* 10 - 12*Length:* Semester class (5 credits)*Prerequisite:* By application process only*Graduation:* Fulfills elective credits*College Prep:* Fulfills one semester elective (“g”) requirement for UC/CSU.*Description:* Link Crew is a student-centered mentoring class. This class engages, develops and trains students to be leaders and mentors. Link Crew is about facilitating a smooth transition both socially and academically for all freshmen throughout the school year. Link Crew is about more than events: it is about helping freshmen achieve success and it is that initial success that propels freshmen toward continued success throughout high school. The Link Crew class is based upon seven units of study developed by the Boomerang Project.**PEER TUTORING– ALL year****Course #8040****Fall semester only****Course #8020****Spring semester only****Course #8025***Grade Level:* 10 - 12*Length:* Semester class (5 credits); May repeat for max 10 credits; Pass/Fail grade*Prerequisite:* 2.5 overall GPA; 3.0 GPA or better in tutoring subject; must have completed full course before student can be a peer tutor for the class.*Graduation:* Fulfills elective credits*College Prep:* Does not apply*Description:* Peer tutoring provides the student with an opportunity to work in the education field. Students will receive training and experience in working with various learning styles, instructional strategies, study skills, and communication skills. These tutoring skills will be used in classrooms to assist individual students needing assistance to improve performance or receive clarification in a specific school course or subject. Peer tutors will be monitored and supervised by the assigned classroom teacher. Peer tutors will be provided with counseling and training sessions to assist and enhance their tutoring skills.**PUSH (Preparing University Students in High School)****Year 1 – (\*articulated with LMC)****Course #7371****Year 2****Course #7372****Year 3****Course #7373***Grade Level:* 9 - 12*Length:* Year class (10 credits)*Prerequisite:* Counselor recommendation, qualifying data, and/or interview application process*Graduation:* Fulfills 10 elective credits*College Prep:* Articulated with LMC for 3 college units for Counseling 032-034. PUSH 12 fulfills (“g”) requirement for UC/CSU. PUSH 9 (7371) is a college-level course and students will be awarded college credit by Los Medanos College through a process known as “course-to-course articulation” or “credit by exam.” If you receive a “C” or better in the class you will be eligible to claim the FREE college credit for Counseling 032-034 at LMC. If you score lower than a “C”, the course will be treated as though it is a regular high school course.*Description:* PUSH is an elective course/program where students learn organizational and study skills, work on critical thinking and ask probing questions, get academic help from peers and tutors, and participate in enrichment and motivational activities that make college attainable. The PUSH acronym stands for “Preparing University Skills in High School”. It is driven by the WICOR method, which stands for writing, inquiry, collaboration, organization and reading, which is a great strategy for being successful in all disciplines on campus. PUSH is a year-long (two semester course) and the program is designed to be run each year of high school through the senior year. PUSH 9 is articulated through LMC and has the “Get Focused, Stay Focused” curriculum integrated into its framework.**Peer Mediation****Course #8046***Grade Level:* 11- 12*Length:* Year class (10 credits)*Prerequisite:* Administrator, Counselor or Teacher recommendation*Graduation:* Fulfills elective credits*College Prep:* Does Not apply*Description:* This course will prepare students to act as peer helpers at the high school level. The students will be given skills to work with other students one-on-one and in small groups in a non-judgmental, neutral manner.

**Sports Management****Course #5660***Grade Level:* 10-12*Length:* Year class (10 credits)*Prerequisite:* none*Graduation:* Fulfills elective credits*College Prep:* Fulfills one-year elective

("g") requirement for UC/CSU. *Description:* Students will learn steps necessary to run athletic events including, facility setup, equipment maintenance, field maintenance, paper program development, logo design, and press releases. In addition, the course will focus on the following technological elements of video production, website design and maintenance, live webcasting of events, and appropriate uses of technological data.

**STAFF ASSISTANT -Year long****Course #8050****Fall semester only****Course #8010****Spring semester only****Course #8015***Grade Level:* 11 - 12*Length:* Semester class (5 credits); May repeat for max of 20 credits; Pass/Fail grade*Prerequisite:* Permission of Counselor or Instructor, cumulative 2.0 GPA or administrative approval*Graduation:* Fulfills elective credits*College Prep:* Does not apply

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

**Student Leadership****Course #7480***Grade Level:* 9 - 12*Length:* Year class (10 credits); May repeat*Prerequisite:* By application process only*Graduation:* Fulfills elective credits

*College Prep:* Fulfills one semester elective ("g") requirement for UC/CSU.

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

**STUDY HALL – Year Long****Course #7685****Fall semester only****Course #7680****Spring semester only****Course #8015***Grade Level:* 9 - 12*Length:* Semester class or Year-long course*Prerequisite:* None*Graduation:* no credits issued*College Prep:* Does not app

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

**UNSCHEDULED PERIODS – Semester Only****Course #7698****AM unscheduled ALL year****Course #7690****PM unscheduled ALL year****Course #7695**

*Description:* Unscheduled periods are class periods during which a student is not attending a class and is not on the campus. Students who have met the following eligibility requirements have the option of requesting unscheduled periods. Eligibility Requirements: Student is on track to graduate with their class (not behind in credits and/ or other graduation requirements). Parent and student have both signed and submitted the unscheduled period application. Administrator has approved unscheduled period application.

Additional Details: 11<sup>th</sup> graders may only receive one unscheduled period per school year. 12<sup>th</sup> graders may receive two unscheduled periods per school year. Students will either be given beginning or last period off (based on course availability). Students will NOT earn credits for their unscheduled period. Students are not allowed on the HHS campus during their unscheduled period(s)