



*A Modesto City School*

# JAMES C. ENOCHS HIGH SCHOOL

**COURSE DESCRIPTION  
CATALOG**

TM

**2022-2023**



## PRINCIPAL'S MESSAGE

The James C. Enochs High School Course Description Catalog is a basic planning guide that describes curricular offerings for the 2022-2023 school year. Using this resource and with the support of parents and counselors, students will be able to design an individual course schedule for the upcoming school year based on their individual post-high school goals. Included in this booklet are the current graduation requirements as well as UC/CSU admission requirements. All students are encouraged to select classes that are both interesting and challenging.

James C. Enochs High School is committed to helping our students achieve their goals and we welcome the continuous participation of parents during the academic planning process and throughout their student's high school years. Parents are vital partners in their student's high school success. Please call our staff whenever you require assistance.

*Justin Woodbridge*



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Modesto City Schools shall not unlawfully discriminate against or tolerate the harassment of employees or job applicants on the basis of their sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, pregnancy, physical or mental disability, medical condition, Vietnam era veteran status, or actual or perceived sexual orientation. Questions regarding the District's non-discrimination policy can be directed to:

**Modesto City Schools District Office**  
 Associate Superintendent, Educational Services  
 426 Locust Street  
 Modesto, CA 95351  
 209-574-1598

## GRADUATION REQUIREMENTS

### Enochs High School Graduation Requirements

A Student shall complete the following course of study to receive a diploma of graduation from the comprehensive high school:

1. Pass a minimum of 230 units
2. Pass required core courses

**English** Eight (8) semesters 40 units  
Students who do not meet District standards in reading will be required to enroll in a remedial reading class until District standards are met.

**Mathematics** Six (6) semesters 30 units  
(including the successful completion of Algebra)

**Science**  
Physical Science Two (2) semesters 10 units  
Biological Science Two (2) semesters 10 units  
**OR**  
An Integrated Science Four (4) semesters 20 units

**Social Science**  
World Geography/Religions One (1) semester 5 units  
**OR**  
AP Human Geography Two (2) semesters 10 units  
World History Two (2) semesters 10 units  
US History Two (2) semesters 10 units  
US Government One (1) semester 5 units  
Economics One (1) semester 5 units

**Visual/Performing Arts** Two (2) semesters 10 units

**OR**

**Career-Technical Education-CTE** Two (2) semesters 10 units

**OR**

**Foreign Language** Two (2) semesters 10 units  
(One course in Visual/Performing Arts for Foreign Language or American Sign Language or Career Technical Education)

**Practical Arts** One (1) semester 5 units

**Physical Education** Eight (8) quarters 20 units  
*Note: (All 9th graders must take Physical Education unless exempted by Board Policy 6142.111.)*

**Health** One (1) semester 5 units

*Note: A course is defined as one year in length unless specifically defined as one semester. No course can be used to satisfy more than one graduation requirement.*

## COLLEGE REQUIREMENTS

### College Preparation Program

Students planning to enroll in a college or university should make an appointment to see their college counselor and discuss programming to meet California State University and University of California entrance requirements.

### Junior College Entrance Requirements

Graduation from high school, or reaching the minimum age of 18 years are the only requirements for junior college admission. There are no subject or grade requirements. However, the better preparation a student has in high school, the better the chances for success in junior college.

### California Community Colleges Admission Requirements



California  
Community  
Colleges

For up-to-date information about admission to the California Community Colleges, including Modesto Junior College, please visit:

<https://home.cccapply.org/en/colleges/requirements>

### CSU (California State University) Admission



The California  
State University

For up-to-date information about freshman admission requirements to California State Universities, please visit:

[https://www2.calstate.edu/apply/freshman/getting\\_into\\_the\\_csu/pages/admission-requirements.aspx](https://www2.calstate.edu/apply/freshman/getting_into_the_csu/pages/admission-requirements.aspx)

### UC (University of California) Admission Requirements



For up-to-date information about freshman admission requirements to the University of California schools, please visit

<https://admission.universityofcalifornia.edu/admission-requirements/freshman-requirements/>

### AICCU (Association of Independent California Colleges and Universities) Admission Requirements

The (AICCU) is comprised of [85 independent, nonprofit colleges and universities](#) in California. Together, these institutions make up the Independent California Colleges and Universities sector (ICCU). For more about the AICCU admission process, please visit <https://aiccu.edu/page/Admission>

# SAT, ACT, UC SCHOLARSHIP AND GPA INFORMATION

For Fall 2023 (UC and CSU) and Spring 2024 (CSU), SAT or ACT scores will not be considered for admission decisions or awarding scholarships. If you choose to submit test scores as part of your application, they may be used to determine your eligibility for the California statewide admissions guarantee, as an alternative method of fulfilling minimum requirements for eligibility, or course placement after you enroll.

For more information regarding testing and UC admissions, please visit <https://admission.universityofcalifornia.edu/admission-requirements/freshman-requirements/exam-requirement/>

For more information regarding the CSU system, please visit [https://www2.calstate.edu/apply/freshman/getting\\_into\\_the\\_csu/Pages/testing-requirements.aspx](https://www2.calstate.edu/apply/freshman/getting_into_the_csu/Pages/testing-requirements.aspx)

## Local Context Guarantee pathway program

Under the Eligibility in the Local Context (ELC) Guarantee pathway, the top 9% of the state's high school graduates are eligible for admission to the UC's [Nine Undergraduate guarantee](#).

To satisfy the [Subject Requirements](#), students must complete high school courses with a grade point average defined by the Scholarship Requirement. This sequence of courses is also known as the "a-g" requirements. Students must take 15 units of high school courses to fulfill the [Subject Requirements](#), and at least 7 of the 15 units must be taken in the last two years of high school. (One unit is equal to an academic year or two semesters of study.)

For more information about the Eligibility in the Local Context Guarantee pathway, please visit:

<https://admission.universityofcalifornia.edu/admission-requirements/freshman-requirements/california-residents/local-guarantee-elc.html>

## UC Scholarship Requirement

The Scholarship Requirement defines the grade point average (GPA) you must earn in the "a-g" subjects and the test scores you must achieve to be eligible for admission to UC. The University uses an Eligibility Index—a combination of GPA and test scores—to determine if you meet this requirement. The minimum GPA is 3.0 for California residents, and 3.4 for nonresidents. Grade 9 courses will not be included in the GPA calculation; however, grade 9 courses can be used to meet the Subject Requirement if the student earns a grade of C or better. For more information about the UC Grant and Scholarship program requirements, please visit:

<https://admission.universityofcalifornia.edu/tuition-financial-aid/types-of-aid/grants-and-scholarships.html>

**Grade Point Average:** To determine your eligibility, the University calculates your GPA in the "a-g" subjects by assigning point values to the grades you earn, totaling the points, and dividing the total by the number of "a-g" courses. Points are assigned as follows: A=4 points, B=3 points, C=2 points, D=1 point, and F=0 points. (Pluses and minuses are not calculated in the grade point average.) Only the grades you earn in "a-g" subjects in the 10th and 11th grades — including summer sessions — are used to calculate your preliminary GPA. Courses you took in ninth grade can be used to meet the Subject Requirement if you earned a grade of C or better, but they will not be used to calculate your GPA.

**Honors Courses:** The University assigns extra points for up to eight semesters of University-certified honors-level and Advanced Placement courses taken in the last three years of high school: A=5 points, B=4 points, C=3 points. No more than two-year-long UC-approved honors level courses taken in the 10th grade may be given extra points. A grade of D in honors or advanced placement courses does not earn extra points.

The courses must be in the following "a-g" subjects: history/social science, English, advanced mathematics, laboratory science, a language other than English, and visual and performing arts. Also, they must be certified as honors courses by the University. In these subjects, as well as in computer science, acceptable honors-level courses include Advanced Placement courses, Higher Level and designated Standard Level International Baccalaureate courses, and college courses that are transferable to the University.

**D and F Grades:** If you have earned a D or F in an "a-g" course, you must repeat the course with a grade of C or better. The original D or F grade will not be included in the GPA calculation, and the new grade will be used. If you repeat a course in which you initially earned a grade of C, the second grade will not be used.

## NCAA ELIGIBILITY

### 16 Required Core Courses for Division 1 and Division II

- Four years of English
- Three years of mathematics (Algebra I or higher level)
- Two years of natural or physical science (including one year of lab science if offered by your high school)
- One extra year of English, mathematics, or natural/physical science
- Two years of social science
- Four years of extra courses (from any category above, or world languages, non-doctrinal religion, or philosophy)

Visit with the College Counselor to make sure you are meeting the Clearinghouse requirements if they are going to be recruited to play sports. NOTE: PACE, John B. Allard, Continuation, and MCS Summer School and Extended Summer School (ESS) courses DO NOT meet NCAA Clearinghouse requirements.

For more information regarding NCAA eligibility requirements for Division 1 academic eligibility, please visit the [NCAA website](#) or go directly to the [Division I](#) site. [Division II](#), or [Division III](#) is also available here as well. If you want to compete in NCAA sports at a Division I school, you need to register with the [NCAA Eligibility Center](#) to make sure you stay on track to meet initial-eligibility standards.

## SCHOLARSHIP & FINANCIAL AID

A college education is more important than ever; however, in recent years education costs have risen steadily. The good news is financial aid is available. The primary goal of financial aid is to make student access possible to education opportunities by removing financial barriers which would exclude financially needy, but otherwise eligible, students from specific schools and programs. Financial aid is available through private, school, state, and federal student aid programs. Students should also apply directly for any scholarships sponsored by individuals, organizations, and institutions for which they might qualify.

For additional sources of scholarships and financial assistance see the college counselor on your campus.



All students are encouraged to apply for the FAFSA (Free Application for Federal Student Aid). Please visit <https://studentaid.gov/h/apply-for-aid/fafsa> for more information and application. More information about the FAFSA program can be found at <https://studentaid.gov/>

## MCS-MJC ARTICULATION AGREEMENT

The 2+2 articulation agreements between Modesto City Schools and Modesto Junior College provide students with an opportunity to eliminate course repetition by awarding college credit for certain academic and technical skills satisfactorily developed while in high school. Students completing approved courses in Modesto City Schools high school Career Technical Education programs, Middle College, and other specified classes may earn high school credit and be awarded college credit upon entering Modesto Junior College. Some junior college courses also satisfy the requirements for bachelor's degree programs. For more detailed information, contact the Articulation Officer at Modesto Junior College, at 209-575-6713 or visit: <https://www.mjc.edu/instruction/articulation/>



	<b>Enochs High School Graduation Requirements</b>	<b>California State University (CSU) Entrance Requirements</b> (All classes must be CP level or higher and passed with a C or better).	<b>University of California (UC) Entrance Requirements</b> (All classes must be CP level or higher and passed with a C or better).
<b>English</b>	4 Years	4 Years	4 Years
<b>Math</b>	3 Years including Algebra I*	3 Years Algebra I* Algebra II	3 Years (4 yrs. recommended) Algebra I* Algebra II
<b>Science</b>	2 Years** 1 year of life science 1 year of physical science <b>or</b> 2 years of integrated science	2 years** 1 year of life science 1 year of physical science	2 Years ** (3 yrs. recommended)
<b>Social Studies</b>	3.5 years World Geo./Religions <b>or</b> Human Geo. (AP) World History (CP) U.S. History (CP) Government/Economics (CP)	2 Years World History (CP) U.S. History (CP) Government	2 Years World History U.S. History Government
<b>World Language</b>	1 Year World Language  <b>OR</b>	2 Years in the same language	2 Years (3 yrs. recommended) in the same language
<b>Career Technical Education</b>	1 Year Career Technical Education <b>OR</b>	No Requirement	No Requirement
<b>Visual Performing Art</b>	1 Year Visual Performing Art	1 Year Visual or Performing Arts	1 Year Visual or Performing Arts
<b>Practical Arts</b>	1 semester	No Requirement	No Requirement
<b>P.E.</b>	2 years (8 quarters)	No Requirement	No Requirement
<b>Health</b>	1 Semester	No Requirement	No Requirement
<b>Electives</b>	65 Credits	1 Year College Prep (CP) electives in History, English, Math, Foreign Language, Science, and Fine Arts	1 Year College Prep (CP) electives in History, English, Math, Foreign Language, Science, and Fine Arts
<b>Total Credits</b>	230 Credits	All students must meet all graduation requirements to receive a Diploma.	

\*\*Life Sciences= Biology or Human Anatomy and Physiology      Physical Sciences = Chemistry or Physics



# James C. Enochs High School

## A-G Course List



The following courses meet requirements for administration to the UC & CSU College systems.

C's or better are required for credit.

Please see the link below for ESS and MVA approved courses:

<https://hs-articulation.ucop.edu/agcourselist>

<p style="text-align: center;"><b>A</b></p> <p style="text-align: center;"><b>History/ Social Science</b> 2 years required</p>	<p style="text-align: center;"><b>B</b></p> <p style="text-align: center;"><b>English</b> 4 years required</p>	<p style="text-align: center;"><b>C</b></p> <p style="text-align: center;"><b>Mathematics</b> 3 years required 4 recommended</p>	<p style="text-align: center;"><b>D</b></p> <p style="text-align: center;"><b>Laboratory Science</b> 2 years required 3 recommended</p>	<p style="text-align: center;"><b>E</b></p> <p style="text-align: center;"><b>Language Other Than English</b> 2 years required 3 recommended</p>	<p style="text-align: center;"><b>F</b></p> <p style="text-align: center;"><b>Visual and Performing Arts</b> 1 year required</p>	<p style="text-align: center;"><b>G</b></p> <p style="text-align: center;"><b>College Prep Elective</b> 1 year required</p>
<ul style="list-style-type: none"> <li>• AP European History*</li> <li>• CP World History</li> <li>• AP U.S. Gov't &amp; Politics*</li> <li>• CP Gov't/Econ</li> <li>• AP Human Geography*</li> <li>• AP U.S. History*</li> <li>• CP U.S. History</li> </ul>	<ul style="list-style-type: none"> <li>• CP English 1-2</li> <li>• Honors English 1-2*</li> <li>• CP English 3-4</li> <li>• Honors English 3-4*</li> <li>• CP English 5-6</li> <li>• AP English Language*</li> <li>• AP English Literature*</li> <li>• Expository Reading and Writing (ERWC)</li> </ul>	<ul style="list-style-type: none"> <li>• Algebra I</li> <li>• Geometry</li> <li>• Honors Geometry</li> <li>• Algebra II</li> <li>• Honors Algebra II</li> <li>• Finite Math</li> <li>• Pre Calculus</li> <li>• Honors Pre Calculus*</li> <li>• AP Calculus AB*</li> <li>• Quantitative Reasoning w/ data science</li> <li>• AP Statistics*</li> <li>• AP Computer Science A*</li> <li>• Artificial Intelligence</li> </ul>	<ul style="list-style-type: none"> <li>• Intro to Physical Science</li> <li>• Biology the Living Earth</li> <li>• Honors Biology the Living Earth</li> <li>• AP Biology*</li> <li>• Chemistry in the Earth System</li> <li>• Hon. Chemistry in the Earth System*</li> <li>• AP Chemistry*</li> <li>• Physics in the Universe</li> <li>• Honors Physics*</li> <li>• AP Physics*</li> <li>• AP Environmental Science*</li> <li>• Agriscience</li> <li>• Bio. &amp; Sustainable Ag.</li> <li>• Human Anatomy and Physiology</li> <li>• Technology of Biology</li> <li>• Science and Ethics of Biotechnology*</li> <li>• Applied Chemistry and Biotechnology*</li> <li>• Cybersecurity 1-6</li> <li>• Software Engineering</li> <li>• AP Computer Science Principles*</li> </ul>	<ul style="list-style-type: none"> <li>• Spanish I</li> <li>• Spanish II</li> <li>• Spanish III</li> <li>• Spanish for Spanish Speakers 3</li> <li>• AP Spanish Language*</li> </ul>	<ul style="list-style-type: none"> <li>• 3D Graphics &amp; Animation</li> <li>• Adv. Ceramics</li> <li>• Adv. Floriculture</li> <li>• Art 1-2</li> <li>• Ceramics</li> <li>• Color Guard</li> <li>• Dance</li> <li>• DSLR Photography 1-4</li> <li>• Graphic Design II, III</li> <li>• Guitar</li> <li>• History &amp; Art of Floral Design</li> <li>• Jazz &amp; Concert Band</li> <li>• Journalism / Yearbook 3-8</li> <li>• Marching Band</li> <li>• Oral Interp. &amp; Performing Arts</li> <li>• Piano</li> <li>• Video Arts &amp; Production</li> <li>• Video Game Development</li> <li>• Water Color &amp; Acrylics</li> <li>• Wind Ensemble</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Journalism 3-4</li> <li>• Adv. Speech</li> <li>• Ag Mechanics 1-4</li> <li>• Agribusiness 1-4</li> <li>• ALD I, II, III, IV-ERWC</li> <li>• AP Psychology*</li> <li>• Psychology</li> <li>• Exploring Computer Science</li> <li>• Grnhse &amp; Horticulture Practices</li> <li>• Health</li> <li>• Indv. Studies for Ag.</li> <li>• Integrated Science: Forensic/ Biotech</li> <li>• Journalism 1-2</li> <li>• Ornamental Horticulture</li> <li>• Peer Assist Leader</li> <li>• Speech</li> <li>• Structural Ag Welding</li> <li>• Veterinary Science</li> <li>• Honors Mobile Apps &amp; Software Development*</li> </ul>



# COLLEGE PLANNING CALENDAR

	Freshman	Sophomore	Junior	Senior
Sept/Aug	<ul style="list-style-type: none"> <li>* Develop course plans for this year &amp; next three years.</li> <li>* Begin writing high school resume—keeping track of all extra-curricular activities, academic awards, community involvement, etc.</li> </ul>	<ul style="list-style-type: none"> <li>* Review your high school course plans.</li> <li>* Ask your counselor about taking the PSAT.</li> </ul>	<ul style="list-style-type: none"> <li>* Review your high school course plans.</li> <li>* Make plans to take PSAT.</li> </ul>	<ul style="list-style-type: none"> <li>* Reduce your list to 5 to 10 colleges.</li> </ul>
October	<ul style="list-style-type: none"> <li>* Begin your high school years by getting in the habit of doing your best in all courses.</li> </ul>	<ul style="list-style-type: none"> <li>* Explore the resources available to you in your guidance office, school library, or career center.</li> <li>* Take the PSAT</li> </ul>	<ul style="list-style-type: none"> <li>* Check for any college fairs in your area.</li> <li>* Take the PSAT</li> </ul>	<ul style="list-style-type: none"> <li>* Work on your application essays.</li> <li>* Take the <a href="#">SAT</a> and <a href="#">ACT</a>, if necessary.</li> <li>* Ask teachers to write recommendations.</li> </ul>
November	<ul style="list-style-type: none"> <li>* As you look ahead to college, spend time identifying the following:                             <ul style="list-style-type: none"> <li>–Goals and values</li> <li>–Academic interests and abilities</li> <li>–Activities and outside interests</li> <li>–Personality and relationships with others</li> <li>–Possible career interests</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>* Continue to do your best in all your courses.</li> </ul>	<ul style="list-style-type: none"> <li>* Begin to explore college possibilities.</li> <li>* Continue to do your best in all your courses.</li> </ul>	<ul style="list-style-type: none"> <li>* Take the <a href="#">SAT</a> and <a href="#">ACT</a>, if necessary.</li> <li>* Give your counselor the school report forms.</li> <li>* CSU/UC application due Nov. 30th.</li> <li>* Scholarship applications are due.</li> <li>* Begin applying for scholarships.</li> </ul>
December		<ul style="list-style-type: none"> <li>* PSAT scores reports will be returned.</li> </ul>	<ul style="list-style-type: none"> <li>* PSAT scores reports will be returned.</li> <li>* Make plans to visit colleges during your school vacations.</li> </ul>	<ul style="list-style-type: none"> <li>* Complete all your applications.</li> <li>* Take the <a href="#">SAT</a> and <a href="#">ACT</a>, if necessary.</li> <li>* Pay attention to all deadlines.</li> <li>* Apply to community colleges.</li> </ul>
January	<ul style="list-style-type: none"> <li>* Consider taking <a href="#">AP</a> classes next year.</li> <li>* Consider taking articulated courses.</li> </ul>	<ul style="list-style-type: none"> <li>Consider taking articulated courses.</li> </ul>	<ul style="list-style-type: none"> <li>* Start exploring financial aid possibilities.</li> </ul>	<ul style="list-style-type: none"> <li>* Attend a financial aid workshop with your parents and submit your <a href="#">FAFSA</a>.</li> <li>* Explore all possible scholarship opportunities.</li> </ul>
February	<ul style="list-style-type: none"> <li>* Eventually, you will be required to take admission tests that measure skills in various areas. Students who develop good reading habits in high school find they have higher test scores.</li> </ul>	<ul style="list-style-type: none"> <li>* Continue to evaluate your goals.</li> <li>* Consider taking <a href="#">AP</a> classes next year.</li> </ul>	<ul style="list-style-type: none"> <li>* Register for the <a href="#">SAT</a> and/or <a href="#">ACT</a>s, if appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>* Respond to all requests from colleges for additional information.</li> <li>* If you have not done so already send in your <a href="#">FAFSA</a>.</li> </ul>
March			<ul style="list-style-type: none"> <li>* Take the <a href="#">SAT</a> either now or in May.</li> </ul>	<ul style="list-style-type: none"> <li>* Consider taking <a href="#">AP</a> exams.</li> <li>* Continue to do your best in all your courses</li> <li>* <a href="#">FAFSA</a> due March 2nd.</li> </ul>
April			<ul style="list-style-type: none"> <li>* Fine-tune your list of college possibilities.</li> <li>* Take visits to college campuses.</li> </ul>	<ul style="list-style-type: none"> <li>* Admission decisions arrive</li> <li>* Financial aid awards should arrive soon.</li> <li>* Revisit any colleges, if necessary.</li> <li>* Apply to community colleges, if you have not already done so.</li> <li>* May 1 is the deadline to accept admission from all colleges.</li> </ul>
June/May			<ul style="list-style-type: none"> <li>* Take the <a href="#">SAT</a> if you did not in March.</li> <li>* Take <a href="#">AP</a> exams, if appropriate.</li> <li>* Plan your summer college visits.</li> <li>* Subject tests, if recommended, in any subjects you will not see again.</li> <li>* Find a job to continue saving for college, or take a summer enrichment course.</li> </ul>	<ul style="list-style-type: none"> <li>* Notify colleges of your plans</li> <li>* Take <a href="#">AP</a> exams, if appropriate.</li> <li>* Be sure to accept your financial aid award.</li> </ul> <p><b>GRADUATION!</b> If attending a 4-year college or university in the fall, submit a final transcript to the campus you will attend. Find a job to meet your expected contribution to the cost of college.</p>

# CLASS DESIGNATIONS

The information below is designed to clarify placement procedures in all core academic classes (English, math, science, and social science) for high school students.

## CLASS DESIGNATIONS

The following class designations reflect the level of academic rigor in core academic classes of English, math, science, and social science:

**Strategic Intervention and Support classes:** Strategic Intervention and Support classes are designed for students who are performing below grade level and, therefore, need additional skills development in reading, writing, or mathematics. Examples of strategic intervention classes are Read 180 and Success Skills. Placement in such classes is determined by the level of success in the previous course, teacher recommendation, and test scores.

**College Preparatory-level classes:** CP core classes are College Preparatory (CP) and are designed for students preparing for entrance into a post-secondary college or university. These classes meet the requirements for college or university entrance.

**Advanced Placement (Honors and AP) -level classes:** These are advanced classes that are designed to provide advanced or accelerated instruction for students wishing to gain college credit while in high school. College credit is determined by the results of AP examinations.

The Honors designated classes are freshman and sophomore classes that prepare students to enroll in AP courses. Students do not earn college credit in Honors classes. Placement in Honors or AP classes is determined by the course prerequisites and teacher recommendation.

# CLASS GUIDELINES

The following prerequisites are **recommended** for entrance into selected CP, Honors, and AP classes:

Course Title	Grade	Prerequisite or Equivalent
Honors English 1-2	9th	Recommendation of 8th grade English teacher, with "B" or higher, teacher recommendation, and completion of summer reading/writing assignments
Honors English 3-4	10th	Honors English 1-2 with "C" or higher, teacher recommendation, and completion of summer reading/writing assignments
AP English Language & Composition	11th	Honors English 3-4 with "C" or higher, teacher recommendation, and completion of summer reading/writing assignments
AP English Literature & Composition	12th	AP English Language & Composition with "C" or higher, teacher recommendation, or a 3 or higher on the AP Lang test, completion of summer reading/writing assignments
Algebra II	9th-12th	Algebra I with "C" or higher and teacher recommendation
Honors Algebra II	9th-12th	Honors Algebra I with "C" or higher and teacher recommendation
Pre-Calculus	11th-12th	Algebra II with "C" or higher and teacher recommendation
Honors Pre-Calculus	11th-12th	Honors Algebra II with "C" or higher and teacher recommendation
AP Calculus	11th-12th	Pre-Calculus/Honors Pre-Calculus with "C" or higher and teacher recommendation
AP Statistics	11th-12th	Algebra II with "C" or higher and teacher recommendation
Finite Math (College Entrance Math Prep)	12th only	Algebra II with "C" or higher, teacher recommendation, conditionally exempt on EAP
Applied Chemistry and Biotechnology	11th only	Algebra I
Honors Biology the Living Earth	10th-11th	Physical Science and Algebra with "C" or higher and teacher recommendation
AP Biology	11th-12th	Honors Biology or Honors Chemistry with "C" or higher and teacher recommendation
CP Chemistry	11th	CP Biology and Algebra with "C" or higher in both
Honors Chemistry	10th-11th	Honors Physical Science & Algebra with "C" or higher OR Honors Biology with teacher recommendation
AP Chemistry	11th-12th	Honors Biology or Honors Chemistry with "C" or higher and teacher recommendation
AP Environmental Science	11th-12th	CP Biology or Honors Biology or CP Chemistry or Honors Chemistry with "C" or higher and teacher recommendation
Human Anatomy and Physiology	11th-12th	CP Biology with "C" or higher and teacher recommendation
Honors Physics	9th only	Jr. HS H/G Physical Science and Algebra with "C" or higher in both and teacher recommendations
AP Physics	11th-12th	Honors Biology or Honors Chemistry <b>and</b> Algebra II with "C" or higher and teacher recommendation
The Science & Ethics of Biotechnology	12th only	Algebra I or IM I and Biology
The Technology of Biology	9th-10th	Algebra I or IM I
AP European History	10th	Honors English and teacher recommendation
AP US History	11th	AP European History or CP World History with a "B" or higher, teacher recommendation, <b>and</b> concurrent enrollment in AP English Language or CP English 5-6
AP US Govt. & Politics	12th	AP US History or CP US History with a "B" or higher, teacher recommendation, <b>and</b> concurrent enrollment in AP English Literature or Expository Reading & Writing Course

# SAMPLE FOUR-YEAR ACADEMIC PLAN

Grade 9	Grade 10	Grade 11	Grade 12
CP English 1-2 Algebra I World Geography/Religions, Health CP Science Physical Education Foreign Language	CP English 3-4 CP Algebra II CP World History Science Physical Education Foreign Language	CP English 5-6 CP U.S. History CP Science Foreign Language Computer Literacy	ERWC CP Math CP US Gov't/Econ CP Science Foreign Language CP Visual/Performing Art

**To receive a diploma of graduation from Enochs High School students must:**

1. Pass a minimum of 230 units.
2. Pass required core courses.

## COURSE DESCRIPTIONS

### AGRICULTURE

#### ADVANCED FLORICULTURE

Course # CTE0031701, CTE0031702                      Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** The advanced floral design class is intended to give the student advanced design techniques including wedding, sympathy, and high-style floral arrangements. This includes everlasting flowers, oriental style of design, contemporary design and techniques, and harvest and distribution. This class also goes into greater detail about operating a retail flower shop and covers careers and continuing education.

**Prerequisites:** History and Art of Floral Design

**Graduation Requirement:** Visual/Performing Arts/Practical Arts, Career Technical Education

#### AGRIBUSINESS I—AGRIBUSINESS 4

Course # CTE0010201, CTE0010202, CTE0020101, CTE0020102

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

Pathway Course: Agricultural Business

**Course Description:** Agricultural Business Management is organized instruction that prepares individuals for employment in agriculture and may also prepare them for advanced training, leading to an agricultural career requiring education at a postsecondary level. This course will focus on current trends in agriculture, ag business, and economics including statistics, laws, and regulations, and the world of work in agriculture. The course is designed to reinforce skills through involvement with the FFA.

**Prerequisites:** Integrated Agriculture Science 1-2/Agribusiness 1-2

**Graduation Requirement:** Practical Arts, Elective

#### AGRISCIENCE 1-2

Course # CTE0010101, CTE0010102                      Grade Level: 9

Duration: 1 year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: ALL in Agriculture and Natural Resources

**Course Description:** This course explores the physical and chemical nature of soil, as well as the relationships between soil, plants, animals, and agricultural practices. Students will examine the properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research program to be conducted throughout the first semester of the course. To complete that whole project, each student will investigate and test an Agriscience research question by formulating a scientific question related to the course

content, formulating a hypothesis based on related research, conducting an experiment to test the hypothesis, collecting quantitative data, and forming a conclusion based on analysis of the data. The result of this research program will be an in-depth research and experimentation paper that is technically written, based on scientific protocol, and cited using APA formatting. Additionally, students will develop and present a capstone soil management plan for agricultural producers, using the content learned throughout the course. Throughout the course, students will be graded on participation in intra-curricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program.

**Prerequisites:** None

**Graduation Requirement:** Laboratory Science, Practical Art

#### AGRISCIENCE SYSTEMS MANAGEMENT

Course # CTE0031301, CTE0031302                      Grade Level: 11-12

Duration: 1 year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Agriscience

**Course Description:** This integrated class combines an interdisciplinary approach to laboratory science and research with agricultural management principles. Using skills and principles learned in the course, students design systems and experiments to solve agricultural management issues currently facing the industry. Additionally, students will connect the products created in this class with industry activities to link real-world encounters and implement skills demanded by both colleges and careers. The course culminates with an Agriscience experimental research project in which students design and experiment to solve a relevant issue. Final projects will be eligible for the Career Development Event competition at FFA events. Throughout the course, students will be graded on participation in extracurricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program.

**Prerequisites:** Biology and Sustainable Agriculture

**Graduation Requirement:** Life Science, Career Technical Education

#### AG MECHANICS 1-2

Course # CTE0010401, CTE0010402                      Grade Level: 9-10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Agricultural Mechanics

**Course Description:** Students will use a classroom and laboratory-type situation to cover the principles, and applications of topics. Work habits and attitudes will be stressed with emphasis on careers in agriculture. Areas of instruction will include safety, tools, measurement, drawing, woods, welding concrete, metal work/sheet metal, electricity, rope, and plumbing.

**Prerequisites:** None

**Graduation Requirement:** Practical Art, Elective, Career Technical Education

## AGRICULTURE CONT'D

### AG MECHANICS 3-4

Course # CTE0021101, CTE0021102                      Grade Level: 10-11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Agricultural Mechanics

**Course Description:** Students will use a classroom and laboratory-type situation to cover the principles, care of, and maintenance of small gas and diesel engines. Work habits and attitudes will be stressed with emphasis on careers in agriculture. Areas of instruction will include the use of equipment manuals, equipment maintenance, and types of engines, oxy-acetylene welding, arc welding, measurement, drawing, safety, and project construction.

**Prerequisites:** Ag Mechanics 1-2

**Graduation Requirement:** Practical Art, Career Technical Education

### BIOLOGY AND SUSTAINABLE AGRICULTURE

Course # CTE0021701, CTE0021702                      Grade Level: 10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Agriscience

**Course Description:** Sustainability is based on a simple principle: Everything that we need for our survival and well-being depends, either directly or indirectly, on our environment. Sustainability creates and maintains the conditions under which humans and the biotic world can exist in productive harmony that permit fulfilling the social, economic, and other requirements of present and future generations. Sustainability is important to make sure that we have and will continue to have the water, materials, and resources to protect human health and our environment (adapted from <http://www.epa.gov/sustainability/basicinfo.htm>). Sustainable Agriculture is a one-year course designed to integrate biological science practices and knowledge into the practice of sustainable agriculture. The course is organized into four major sections, or units, each with a guiding question. Unit one addresses the question, what is sustainable agriculture? Unit two: How does sustainable agriculture fit into our environment? Unit three: What molecular biology principles guide sustainable agriculture? Unit four: How do we make decisions to maximize sustainable agricultural practices within a functioning ecosystem? Within each unit specific life science principles will be identified with agricultural principles and practices guiding the acquisition of this knowledge, culminating in the development of a sustainable farm model and portfolio of supporting student research. Agriculture Education is a comprehensive program and requires students to participate in a Supervised Agriculture Experience (SAE) Project component as well as FFA leadership activities and events. These activities are a graded component of this course. A student cannot receive an A grade without participation in FFA and Supervised Agricultural Experience (SAE).

**Prerequisites:** Integrated Ag Science 1-2 with "C" or higher.

**Graduation Requirement:** Biology, Career Technical Education

### GREENHOUSE AND HORTICULTURE PRACTICES

Course # CTE0021901, CTE0021902                      Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Ornamental Horticulture

**Course Description:** Designed as an advanced class in ornamental horticulture, students learn and apply skills in both operating and maintaining environments for correct plant growth. Labs and activities will have an emphasis on plant identification and control of agricultural pests and weed control, plant environments, soil media, plant growth, plant propagation, transplanting, and merchandising of ornamental plants. In addition, purchasing and inventory control, and safe use of nursery materials, supplies, and equipment. Learners will also gain experience through leadership development, SAE (Supervised Agriculture Experience) projects, and career exploration around plant science.

**Prerequisites:** None

**Graduation Requirement:** Practical Arts, Career Technical Education

### HISTORY AND ART OF FLORAL DESIGN II

Course # CTE0022301, CTE0022302                      Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Ornamental Horticulture

**Course Description:** History and Art of Floral Design provides an introduction to the artistic and creative approach to Floral Design. This includes aesthetic valuing through a series of projects in various media including tempera, paint, flowers, glass, and tile. Students will be introduced to the elements and principles of visual art such as line, shape, form, color, balance, and an emphasis on using floral-based projects to explore the connections, relations, and application of Floral Design. Assignments will be based on abstract two- and three-dimensional designs, color theory, and an analytical critique of various Floral Artworks using design vocabulary while developing technical skills in Floral Art.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Art, Practical Art

### HISTORY AND ART OF FLORAL DESIGN III

Course # CTE0031601, CTE0031602                      Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** In History and Art of Floral Design III, the students will explore the floriculture industry on a more technical and advanced level. Students will expand upon their creative expression, aesthetic valuing, perceptions, and historical and cultural context. The art elements and principles of design will serve as a foundation for each unit covered.

**Prerequisites:** History and Art of Floral Design II

**Graduation Requirement:** Visual/Performing Art

### INDIVIDUAL STUDIES FOR AGRICULTURE

Course # CTE0020201, CTE0020202                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Vocational Education in Agriculture is organized instruction that prepares individuals for employment in agriculture and may also prepare them for advanced training, leading to an agricultural career requiring education at a postsecondary level. This course is an individualized program of study for junior and senior students with definite career goals or interests. The course of study will reflect the student's areas of interest. Participation in FFA leadership activities will reinforce the learning process of these students.

**Prerequisites:** None

**Graduation Requirement:** Practical Arts, Career Technical Education

### ORNAMENTAL HORTICULTURE

Course # CTE0010801, CTE0010802                      Grade Level: 9-10

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** Ornamental Horticulture will provide the student with the necessary entry-level techniques for a career in ornamental horticulture and the nursery industry. Topics covered include the anatomy and physiology of plants and the requirements for plant growth. Topics include plant growth needs, botanical classification, plant physiology, plant reproduction, plant diseases and pests, planting media, management practices, selection, and care of plants. Other coursework includes units on plant identification, tool identification, plant propagation, fertilizers, herbicide and pesticide use, irrigation, and landscape design.

**Prerequisites:** None

**Graduation Requirements:** Practical Arts, Career Technical Education

## AGRICULTURE CONT'D

### STRUCTURAL AG WELDING

Course # CTE0030801, CTE0030802                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Agricultural Mechanics

**Course Description:** Students will use a laboratory-type situation to cover the principles, and applications of MIG, TIG, and oxy-acetylene welding of large equipment. Strong emphasis is put on the instruction and participation of project design, project construction, and cost of materials. Participation in FFA will reinforce skill development in these students.

**Prerequisites:** Agricultural Mechanics 1-2, 3-4

**Graduation Requirement:** Practical Arts, Career Technical Education

### VETERINARY SCIENCE

Course # CTE0031501, CTE0031502                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** Veterinary Science is an advanced level course that covers topics such as laboratory research, anatomy and physiology, circulatory and respiratory systems, nutrition, genetics, and more when it comes to animals. It will also allow students to research various professional opportunities within the veterinary field and allow them to develop their agricultural interpersonal skills as well as leadership development.

**Prerequisites:** None

**Graduation Requirements:** Practical Arts, Career Technical Education

## COMPUTER SCIENCE

### 3D GRAPHICS & ANIMATION FOR CS

Course # CTE1010901, CTE1010902                      Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** The world of 3D is rapidly expanding, and career opportunities exist in a wide range of fields – including architecture, games, product and industrial design, civil engineering, and film and television animation. In this course, students will pursue an in-depth study of fundamental concepts of 2D and 3D computer graphics and scripting. Students will learn to produce high-quality images and animated sequences using 3D software, and to develop their 3D content using the tools learned, techniques studied, and their creativity. This course puts students into a 3D production environment where creative output must be accomplished within specific time frames, resources, and design constraints. Students will demonstrate and apply what they learn through a series of creative and engaging projects. Projects will integrate math, science, coding, and other core subjects with graphics and animation. Students will prepare for occupations such as 3D Animator, Engineer, Architect, 3D Modeler, 3D Lighting Specialist, Texture Artist, Game Level Designer, Special Effects Artist, and Video Post-Production Artist. Students will develop the skills and knowledge to be creative partners in the industry while building capacity for employment in all areas of the creative workforce.

**Prerequisites:** Concurrent enrollment in secondary math I or higher is highly recommended.

**Graduation Requirement:** Visual/Performing Arts/Practical Arts, Career Technical Education

**College Credit Through Articulation:** Yes

### AP COMPUTER SCIENCE A (Advanced)

Course # COM09911, COM09912                      Grade Level: 10-12

Duration: 1 year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** AP Computer Science A is a full-year course emphasizing object-oriented programming methodology with an emphasis on problem-solving and algorithm development. It also includes the study of data structures and abstraction. This class will be

the equivalent of a first-semester college course in computer science. It is expected that students take the AP Computer Science A exam. Students and their advisers must understand that any significant computer science course builds upon a foundation of mathematical reasoning that should be acquired before attempting such a course. Although the AP Computer Science A course will draw heavily upon theory, formal logic, abstract data structures, and a conceptual understanding of algorithms, students also will gain significant experience applying the concepts to tackle a wide range of problems. As they design data structures and develop algorithms, students should integrate ideas, test hypotheses, and explore alternative approaches. The course's activities are motivated by real-world applications and will provide insights into how computing can be useful in society, motivate the study of technical issues, and capture interest.

**Prerequisites:** Completion of AP Computer Science Principles and Honors Mobile App and Software Development is highly recommended and concurrent enrollment in Algebra 2 or higher.

**Graduation Requirement:** Practical Arts

**College Credit Through Articulation:** Yes

### AP COMPUTER SCIENCE PRINCIPLES

Course # COM09901, COM09902                      Grade Level: 9-12

Duration: 1 year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles allows students to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

**Prerequisites:** Completion of Algebra 1 or higher is highly recommended.

**Graduation Requirement:** Practical Arts, Elective

**College Credit Through Articulation:** Yes

### ARTIFICIAL INTELLIGENCE

Course # CTE1020501, CTE1020502                      Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Students taking this course will learn the fundamentals of artificial intelligence, including programming, problem-solving, algorithmic techniques, intelligent automation, machine learning, and ethical considerations. Emphasis is placed on artificial intelligence in the context of industrial and community applications. Students will efficiently design, develop, and assess Intelligent Agents using Python and probability.

**Prerequisites:** Exploring Computer Science, or 3D Graphics & Animation for CS, or AP CS P, or Cybersecurity 1-2, or instructor approval.

**Graduation Requirements:** Visual/Performing Arts/Practical Arts, Career Technical Education

### CYBERSECURITY 1-2

Course # CTE1020101, CTE1020102                      Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Cybersecurity 1-2 prepares students for a career in network administration and information technology support services with a focus on cyber security. This course includes a series of technical modules that provide hands-on knowledge and skills development in computer hardware, operating systems, networking, coding, and security infrastructures. Industry-based curricula are utilized in network and virtual image environments to emulate real-life scenarios and prepare students for industry-recognized certifications. Students research and address ethical and legal standards, information security, and mitigate cyber vulnerabilities through intricate problem-solving scenarios mandating critical thinking, incident response and analysis, and collaboration.

## COMPUTER SCIENCE CONT'D

Curriculum content is designed to ensure privacy, reliability, and integrity of information systems for students preparing for careers in Cybersecurity and Information and Communications Technology (ICT). Certifications: CompTIA ITF+; Micro-certifications through Cybrary including Network Security and Mobile Device Security.

Upon successful completion of the entire Cybersecurity Pathway, students will be eligible for CompTIA Security+, Network+, and Cisco Certified Network Associate.

**Prerequisites:** Concurrent enrollment in secondary math I or higher is highly recommended.

**Graduation Requirements:** Practical Arts, Career Technical Education

**College Credit Through Articulation:** Yes

### CYBERSECURITY 3-4

Course # CTE1030101, CTE1030102

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course builds on the technical skills and knowledge students acquired in Cybersecurity 1-2. Cybersecurity 3-4 prepares students for post-secondary information technology majors and careers in network administration and information technology support services with a focus on cybersecurity. This course includes the utilization of online educational/technical modules that provide hands-on knowledge, critical thinking, and skills development in computer hardware, operating systems, networking, coding, and security infrastructures. Industry-based curricula are utilized in network and virtual image environments to emulate real-life scenarios and prepare students for industry-recognized certifications. Students research and address ethical and legal standards, leadership, information administration, and mitigate cyber vulnerabilities through intricate problem-solving scenarios mandating critical thinking, incident response and analysis, and collaboration. Curriculum content is designed to ensure a deeper understanding of privacy, reliability, and integrity of information systems for students preparing for careers in cybersecurity and Information and Communications Technology (ICT). Certifications: Upon successful completion of the entire Cyber Security Pathway, students will be eligible for CompTIA Security+, Network+, and Cisco Certified Network Associate.

**Prerequisites:** Cybersecurity 1-2 Graduation Requirement: PRA, FPA, REG

**Graduation Requirement:** Practical Arts, Career Technical Education

**College Credit Through Articulation:** Yes

### CYBERSECURITY 5-6

Course # CTE1031001, CTE1031002

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Cybersecurity 5-6 is the advanced capstone class of the pathway that prepares students for success in postsecondary information technology majors and careers in network administration and information technology support services with a focus on Cybersecurity. The course includes a series of technical modules that provide hands-on learning as well as knowledge and skills development in computer hardware, operating systems, networking, coding, and security infrastructures. Industry-based curricula are utilized in network and virtual image environments to emulate real-life scenarios and prepare students for industry-recognized certifications. A primary focus of all capstone classes is project-based learning and learning to work as a member of a team. Ethical hacking and penetration testing concepts will be introduced with an emphasis on information security research. The Cybersecurity curriculum is designed to ensure a deep understanding of privacy, reliability, and integrity of information systems for students preparing for majors and careers in Cyber Security and Information and Communications Technology. In today's digital world threats from cyberspace are real and dangerous. Cybersecurity 5-6 concludes the multi-year pathway by establishing foundational principles and best practices of cyber security and online identity protection. Topics include information security, ethical and legal

practices, and mitigating cyber vulnerabilities. As courses are linked in English, Social Sciences, Math, and Visual & Performing Arts, students will complete interdisciplinary projects, practice incident response, and analysis, and test the integrity of modern information systems.

Certifications: Upon successful completion of the Cybersecurity Pathway, students will have the foundational knowledge necessary for certifications such as CompTIA Security+, A+, Network+, Server+, and Cisco Certified Network Associate.

**Prerequisites:** Cybersecurity 3-4

**Graduation Requirement:** Practical Arts, Career Technical Education

### EXPLORING COMPUTER SCIENCE

Course # CTE1010301, CTE1010302

Grade Level: 9-10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Exploring Computer Science is a way to make computer science education fun and accessible, equipping students with the necessary skills for the current and future job market.

Students learn best when they have a meaningful experience and are interested in the topic. Exploring Computer Science provides students with opportunities for problem-solving, designing, collaborating, critical thinking, and communicating. Students will learn perseverance, developing concepts, and working through challenges to develop their ideas and understanding of how technology works through authentic real-world projects. Students will be introduced to the central ideas of computer science, inviting students to develop the computational thinking vital for success across multiple disciplines, and giving everyone the chance to learn to code; a skill that provides limitless creative opportunity.

**Prerequisites:** Concurrent enrollment in secondary math I or higher is highly recommended.

**Graduation Requirement:** Practical Arts, Career Technical Education

**College Credit Through Articulation:** Yes

### HONORS MOBILE APPS & SOFTWARE DEVELOPMENT

Course # COM09851, COM09852

Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Mobile applications are becoming increasingly important to our consumption of media, news, social interaction, and learning. In this course, students will learn how to create mobile apps using React Native, a popular framework developed by Facebook and used by successful tech companies including Airbnb, Instagram, Tesla, and more. As an online blended course, students will design and build applications to run on their smartphones and will use the latest tools and technologies available for mobile app development. Students will learn the foundations of the React Native framework, components, and how to use components to create scalable, custom, and fast mobile applications. Students will also learn about important computer science topics including state changes, using XML and stylesheet objects, mapping through objects, rendering dynamic data, and creating modular app layouts with flex and the Dimensions API.

**Prerequisites:** AP Computer Science Principles or AP Computer Science A recommended

**Graduation Requirement:** Elective

### INTERNSHIP IN COMPUTER SCIENCE

Course # CTE1031301, CTE1031302

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** An internship is a work-based learning experience that provides students the opportunity to apply their technical and academic skills in a professional setting. Students will develop and practice an understanding of the duties and responsibilities of high-skilled career areas, including terminology, climate, protocol, and other information that will enable them to analyze and revise their meaningful plans. This course will expose students to the career readiness skills necessary for a successful internship and prepare them for the world of work. The internship is supported with activities and

## COMPUTER SCIENCE CONT'D

assignments to deepen and enhance the experience. The structure of the internship aligns with local policy and program expectations for internships.

**Prerequisites:** Concurrent Enrollment in Cybersecurity 3-4/5-6 or Software Engineering.

**Graduation Requirement:** Practical Arts, Career Technical Education

### SOFTWARE ENGINEERING

Course # CTE1031201, CTE1031202

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Software Engineering is the capstone course for the ICT industry sector, the Software Systems Development pathway. This course builds on the Software and Systems Development skills that students have learned in one or more of the following courses: Web Application Development, Artificial Intelligence, Exploring Computer Science, #D Graphics and Animation, Video Game Development, or Web App Development. Students taking this course will learn the fundamentals of Software Engineering, including project life cycle, project proposal, timeline, scrum/agile software development, client communication, specifications, requirements, product design, team dynamics, skills assessment, version control, minimally viable product, and testing. Emphasis is placed on developing further depth of knowledge in computer science and teamwork skills needed for the projects. Students will create projects utilizing Software Engineering principles and processes with the instructor acting as the project manager.

**Prerequisites:** Web Application Development, or Artificial Intelligence, or Video Game Development, or 3D Graphics and Animation, or Exploring Computer Science, or instructor approval.

**Graduation Requirement:** Laboratory Science

### VIDEO GAME DEVELOPMENT

Course # CTE1010801, CTE1010802

Grade Level: 10-12

Duration: 1 year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Do you have a passion for video games? Interested in learning how to make your own? This course will introduce you to both video game design and development; digital arts as applied to game design; and computer programming. Students will learn state-of-the-art video game design and development using the latest in industry standards and game engine software. Students will pursue an in-depth study of the artistic practices, fundamentals, and principals of game design, including binary space partitioning, terrain and foliage creation, animation, lighting, materials, visual effects, character creation, cinematics, post-process effects, level design, user interfaces, and audio production. Students will apply modeling, painting, sculpting, mapping, lighting, rendering, animation, compositing, and visual effects techniques. Students will demonstrate and apply what they learn through a series of creative and engaging projects.

**Prerequisites:** Exploring Computer Science, or 3D Graphics & Animation for CS, or AP CS P, or Cybersecurity 1-2, or instructor approval.

**Graduation Requirement:** Visual/Performing Arts/Practical Arts, Career Technical Education

### WEB APPLICATION DEVELOPMENT

Course # CTE1030401, CTE1030402

Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Web Application Development is a grounding in artist principles for web design, and a rigorous treatment and continuation of transferable computer science concepts and skills taught through web application development. Students will explore the historical and rapidly changing trends in the field of design for the web. Through relevant design projects, students develop problem-solving and critical thinking skills, artistic perception, critique, and self-reflection. Students will use their design expertise to propose a project that will be

iteratively built throughout the year using the skills as they learn them. Students will implement their design using the application of visual arts and elements of design, color, usability, and accessibility; HTML markup, CSS styling, Grid-based web design, Responsive web development, JavaScript, Document Object Model, database functions (create, read, update, delete), data modeling and database design. This course has been aligned with the five strands of the Visual and Performing Arts Content Standards for California Public Schools including Artistic Perception, Creative Expression, Historical and Cultural Context, Aesthetic Valuing, and Connections, Relationships, and Applications.

**Prerequisites:** Exploring Computer Science, or 3D Graphics & Animation for CS, or AP CS P, or Cybersecurity 1-2, or instructor approval.

**Graduation Requirement:** Visual/Performing Arts/Practical Arts, Career Technical Education

## ENGLISH

College Credit Through Articulation: Yes

### ALD (ACADEMIC LANGUAGE DEVELOPMENT)

Course # ENG88851, ENG88852, ENG88861, ENG88862, ENG88871, ENG88872, ENG88891, ENG88892

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Academic Language Development I is a comprehensive, standard-based designated English Language Development program that complies with recommendations from the state-adopted ELA/ELD Framework. This course supports ELs to develop discourse practices, grammatical structures, and vocabulary necessary to participate in academic tasks across all content areas. There is a strong emphasis on oral language development, reading, and writing tasks to help students develop an awareness of how English works in both spoken and written language. By using reading strategies, unit-related vocabulary, literary concepts, and grammar development, students will acquire the basics of the English language and grammar. Additionally, students will obtain writing skills from simple to complex sentences to enhance their writing towards extended pieces, as they advance towards ongoing language development.

**Prerequisites:** English Language Learner not in need of accelerated intervention

**Graduation Requirement:** Elective

### ENGLISH 1-2, COLLEGE PREPARATORY

Course # ENG10201, ENG10202

Grade Level: 9

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** College Preparatory English 1-2 is a comprehensive, standards-based language arts program that complies with the recommendations of the University of California and the California State University system. This course requires students to ready selections from the district-adopted digital program as well as district-approved extended reading lists that include both fiction and nonfiction texts in their entirety as outlined in the attached pacing guide, to meet or exceed content area standards in writing, and to demonstrate higher-level critical thinking skills in their written and oral work.

**Prerequisites:** Recommendation of 8th grade English teacher pending on-site high school assessment

**Graduation Requirement:** English

### ENGLISH 1-2, HONORS

Course # ENG10011, ENG10012

Grade Level: 9

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This pre-university honors course is designed for highly motivated students performing at or above grade level in language arts. The curriculum supports the California Common Core standards and is geared toward students who plan to attend a four-year university immediately after high school graduation. This course

## ENGLISH CONT'D

requires students to read extensively from district-approved and Advanced Placement literature lists, which include both classic and modern pieces, to meet or exceed content area standards in writing, to work independently, and demonstrate higher-level critical thinking skills in their written and oral work. Throughout this course, students analyze various elements of literature and nonfiction through multiple lenses while engaging in assorted genres, such as investigative journalism, non-fiction articles, academic essays, speeches, videos, documentaries, historical documents, novels, dramas, short stories, and poetry. Furthermore, students will continuously develop their writing skills in argument and literary analysis. The focus of the course is critical analysis in preparation for the international AP English Language and Literature Composition courses in the junior and senior years. Students do not earn college credit in Honors classes.

**Prerequisites:** Recommendation of 8th grade English teacher and a grade of "B" or higher in 8th grade Honors English, and completion of summer reading/writing assignments

**Graduation Requirement:** English

### **ENGLISH 3-4, COLLEGE PREPARATORY**

Course # ENG10901, ENG10902

Grade Level: 10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** College Preparatory English 3-4 is a comprehensive, standards-based language arts program that complies with the recommendations of the University of California and the California State University system. This course requires students to read form the district-adopted digital program that includes both fiction and nonfiction selections as well as texts from the district-approved extended reading lists in their entirety as outlined in the attached pacing guide, to meet or exceed content area standards in writing, and to demonstrate higher-level critical thinking skills in their written and oral work.

**Prerequisites:** Recommendation of the 9th grade English teacher

**Graduation Requirement:** English

### **ENGLISH 3-4, HONORS**

Course # ENG10021, ENG10022

Grade Level: 10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This pre-university honors course is designed for highly motivated students performing at or above grade level in language arts. The curriculum supports the California Common Core standards and is geared toward students who plan to attend a four-year university immediately after high school graduation. This course requires students to read extensively from district-approved and Advanced Placement literature lists which include both classic and modern pieces, to meet or exceed content area standards in writing, to work independently, and demonstrate higher-level critical thinking skills in their written and oral work. Throughout this course, students analyze various elements of literature and nonfiction through multiple lenses while engaging in assorted genres, such as investigative journalism, non-fiction articles, academic essays, speeches, videos, documentaries, historical documents, novels, dramas, short stories, and poetry. Furthermore, students will continuously develop their writing skills in argument and literary analysis. The focus of the course is critical analysis in preparation for the international AP English Language and Literature Composition courses in the junior and senior years.

**Prerequisites:** Honors English 1-2 with a "C" or higher, teacher recommendation, and completion of the summer reading/writing assignments.

**Graduation Requirement:** English

### **ENGLISH 5-6, COLLEGE PREPARATORY**

Course # ENG11601, ENG11602

Grade Level: 11th

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** College Preparatory English 5-6 is a comprehensive, standards-based language arts program that complies

with the recommendations of the University of California and the California State University system. This course requires students to read from the district-adopted digital program as well as texts from the district-approved extended reading lists that include both fiction and nonfiction texts in their entirety as outlined in the attached pacing guide, to meet or exceed content area standards in writing, and to demonstrate higher-level critical thinking skills in their written and oral work.

**Prerequisites:** Recommendation of 10th grade English teacher

**Graduation Requirement:** English

### **ENGLISH LANGUAGE & COMPOSITION, ADVANCED PLACEMENT**

Course # ENG11401, ENG11402

Grade Level: 11th

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is a college-level course designed for highly motivated students performing above grade level in language arts as active, critical readers with sophisticated writing skills. The curriculum supports the California Common Core standards and is geared toward students who plan to attend a four-year college or university immediately after high school graduation. This course requires students to read extensively from district-approved and advanced placement literature lists, meet or exceed content area standards in writing, work independently, and demonstrate higher-level critical thinking skills in their written and oral work. The focus of the course is critical rhetorical analysis in preparation for the international AP English Language and Composition exam.

**Prerequisites:** None

**Graduation Requirement:** English

### **EXPOSITORY READING & WRITING COURSE (ERWC)**

Course # ENG16501, ENG16502

Grade Level: 12th

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** The grade 12 Expository Reading and Writing Course (ERWC) engages students in the discovery of who they are as persons, the realization of how they can participate in society, and their development as critical consumers and effective communicators within society. Teachers and schools build and personalize the yearlong course by selecting from approximately 40 modules (instructional units) to meet rigorous, college-preparatory learning goals in reading, writing, listening, and speaking for all students while promoting student interest and motivation. Employing a rhetorical, inquiry-based approach that fosters critical thinking, student agency, and metacognition, the course includes five to six full-length modules drawn from three categories: 1) Shakespeare drama; 2) full-length books; and 3) contemporary issues (three to four modules). In addition, the course includes two short portfolio modules and at least three mini-modules that address transferable skills applicable to conceptual development and practice across all modules, e.g., genre awareness, goal setting, self-assessment, rhetorical situation, and Aristotelian appeals. The core structure of all the modules-the Assignment Template-progresses along an "arc" from reading rhetorically (preparing to read, reading purposefully, and questioning the text) to preparing to respond (discovering what you think) to writing rhetorically (composing a draft, revising rhetorically, and editing). By the end of the course, students will have read a range of literary and nonfiction text genres and produced 10-12 culminating projects, including academic essays, creative writing and performances, and multimedia presentations/research reports, from initial draft to final revision and editing.

**Prerequisites:** Teacher recommendation and/or "Conditionally Exempt" on the EAP

**Graduation Requirement:** English



## ENGLISH CONT'D

## MATHEMATICS

*Graduation Requirement:* Health

### ENGLISH LITERATURE & COMPOSITION, ADVANCED PLACEMENT

Course # ENG12201, ENG12202

Grade Level: 12th

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed for highly motivated students performing above grade level in language arts. It is a college-level course that engages students in the "careful reading and critical analysis of imaginative literature." This class will explore mature, adult-level, thought-provoking works of high literary value which encompass a variety of genres, periods, and language styles. All students are expected to "read deliberately and thoroughly, taking time to understand a work's complexity, absorb its richness of meaning, and analyze how that meaning is embodied in literary form. In short, students in an Advanced Placement English Literature course should read actively. The works taught require careful deliberative reading, and the approach to analyzing and interpreting them involves students learning how to make careful observations of textual detail, establish connections among their observations, and draw from those connections a series of inferences leading to an interpretive conclusion about the work's meaning and value." Quality writing is a must and "should be an integral part of an Advanced Placement English Literature and Composition course." Writing assignments will "focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Critical essays make up the bulk of student writing." The approaches to writing will vary, from notebook response to in-depth reaction papers. Most assignments will be relatively brief, but thorough. In essence, the goal of this course is "to increase students' ability to explain clearly, cogently, even elegantly, what they understand about literary works and why they interpret them as they do. To that end, writing instruction will include attention to developing and organizing ideas in clear, coherent, and persuasive language." Moreover, writing is a shared experience as students work together to develop and revise their critical-thinking skills. Students in this class are expected to take the Advanced Placement examination.

**Prerequisites:** AP English Language and Literature with a "C" or higher, teacher recommendation, or a 3 or higher on the AP English Language and Composition Test, and completion of the summer reading/writing assignments.

**Graduation Requirement:** English

### ELA SUPPORT 1-2

Course # ENG88701, ENG88702

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: No

**Course Description:** This course is the second of a two-period block designed for students who read and write below a ninth-grade level in language arts, and are more than two grade levels below average. The curriculum supports the California Language Arts Content Standards and is an intensive accelerated intervention course that is designed to increase reading Lexile two grade levels.

**Prerequisites:** Students placed in this course have scored below 900 on the Scholastic Reading Inventory (SRI) Lexile test.

## HEALTH

**Graduation Requirement:** English/Elective

### HEALTH

Course # HEA60311, HEA60312

Grade Level: 9

Duration: 1 Year

Meets UC/CSU Entrance Requirement: No

**Course Description:** Health is a required course that includes instruction in alcohol, tobacco, and drug education, family life, AIDS, nutrition, first aid, disease, and mental and emotional health.

**Prerequisites:** None

# MATHEMATICS CONT'D

## ALGEBRA I

Course # MAT37301, MAT37302

Grade Level: 9

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** For the high school Mathematics Integrated 1 course, instructional time should focus on six critical areas: (1) extending understanding of numerical manipulation to algebraic manipulation; (2) synthesizing an understanding of functions; (3) deepening and extending understanding of linear relationships; (4) apply linear models to data that exhibit a linear trend; (5) establish criteria for congruence based on rigid motions, and (6) apply the Pythagorean Theorem to the coordinate plane. The scope of this course is limited to linear and exponential expressions and equations as well as some work with absolute value, steps, and piecewise-defined functions. Students will learn to think critically in a mathematical way with an understanding that there are many different ways to a solution and sometimes more than one right answer in applied mathematics. The Mathematical Practice Standards and Content Standards are connected in instruction and prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Prerequisites:** Successful completion of Math 8 and teacher recommendation

**Graduation Requirement:** Math

## ALGEBRA II

Course # MAT36401, MAT36402

Grade Level: 9-11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is built to follow the adopted California State Mathematics Framework. The Algebra 2 course extends students' understanding of functions and real numbers and increases the tools students have for modeling the real world. Students in Algebra 2 extend their notion of numbers to include complex numbers and see how the introduction of this set of numbers yields the solutions of polynomial equations and the Fundamental Theorem of Algebra. Students deepen their understanding of the concept of a function and apply equation-solving and function concepts to many different types of functions. The system of polynomial functions, analogous to integers, is extended to the field of rational functions, which is analogous to rational numbers. Students explore the relationship between exponential functions and their inverses, the logarithmic functions. Trigonometric functions are extended to all real numbers, and their graphs and properties are studied. Finally, students' knowledge of statistics is extended to include understanding the normal distribution, and students are challenged to make inferences based on sampling, experiments, and observational studies.

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

**Graduation Requirement:** Math

## ALGEBRA II, HONORS

Course # MAT36201, MAT36202

Grade Level: 9-11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is built to follow the adopted California State Mathematics Framework. The Algebra 2 course extends students' understanding of functions and real numbers and increases the tools students have for modeling the real world. Students in Algebra 2 extend their notion of numbers to include complex numbers and see how the introduction of this set of numbers yields the solutions of polynomial equations and the Fundamental Theorem of Algebra. Students deepen their understanding of the concept of a function and apply equation-solving and function concepts to many different types of functions. The system of polynomial functions, analogous to integers, is extended to the field of rational functions, which is analogous to rational numbers. Students explore the relationship between exponential functions and their inverses, the logarithmic functions. Trigonometric functions are extended to all real

numbers, and their graphs and properties are studied. Finally, students' knowledge of statistics is extended to include understanding the normal distribution, and students are challenged to make inferences based on sampling, experiments, and observational studies.

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

**Graduation Requirement:** Math

## CALCULUS AB, ADVANCED PLACEMENT

Course # MAT35701, MAT35702

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Advanced Placement Calculus (AB) is a full year of work in calculus and related topics that is comparable to a first-semester course in a college or university. Most of the class is devoted to topics in differential and integral calculus. It is expected that students who take this course will seek college credit by taking the AP Calculus AB Test. Students should have a thorough knowledge of college preparatory mathematics including algebra, axiomatic geometry, trigonometry, analytic geometry (rectangular and polar coordinates, equations, and graphs, lines, and conics). The typical student should have previously completed successfully Algebra, Geometry, Advanced Algebra, and Pre-Calculus.

**Prerequisites:** Pre-Calculus/Honors Pre-Calculus with a "C" or higher and teacher recommendation

**Graduation Requirement:** Math

## FINANCIAL MATH

Course # MAT39311, MAT39312

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: No

**Course Description:** Financial Math is a course designed to introduce students to the mathematics involved in daily life and a basic look into the finances involved with running a small business. Personal finance units include bank accounts, credit, and investment. Business applications include accounting, marketing, inventory, and sales.

**Prerequisites:** 12th Grade recommended

**Graduation Requirement:** Math

## FINITE MATH: COLLEGE ENTRANCE MATH PREP

Course # MAT39901, MAT39902

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course provides a general survey of mathematical topics designed for students who will undertake higher-level mathematics in college that may or may not include calculus. Topics in the class will include algebraic functions, geometry, measurement, personal finance, logic, number theory, set theory, probability, and statistics. The four major goals of the class are 1) to help students acquire knowledge of fundamental mathematics, 2) to show students how mathematics can solve authentic problems that apply to their lives, 3) to enable students to understand and reason with quantitative issues and mathematical ideas they are likely to encounter in school, career, and life, and 4) to enable students to develop problem-solving skills, while fostering critical thinking, within an interesting setting.

**Prerequisites:** Advanced Algebra with a "C" or higher, teacher recommendation

**Graduation Requirement:** Math

## GEOMETRY

Course # MAT36801, MAT36802

Grade Level: 9-10

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** The fundamental purpose of the Geometry course is to introduce students to formal geometric proofs and the study of plane figures, culminating in the study of right-triangle trigonometry and circles. Students begin to formally prove results about the geometry of the plane by using previously defined terms and notions. The similarity is explored in greater detail, with an emphasis on discovering

## MATHEMATICS CONT'D

trigonometric relationships and solving problems with right triangles. The correspondence between the plane and the Cartesian coordinate system is explored when students connect algebra concepts with geometry concepts. Students explore probability concepts and use probability in real-world situations. The major mathematical ideas in the Geometry course include geometric transformations, proving geometric theorems, congruence and similarity, analytic geometry, right-triangle trigonometry, and probability.

**Prerequisites:** Algebra 1

**Graduation Requirement:** Math

### GEOMETRY, HONORS

Course # MAT36601, MAT36602

Grade Level:9-10

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes, with a grade of "C" or higher

**Course Description:** The fundamental purpose of the Geometry course is to introduce students to formal geometric proofs and the study of plane figures, culminating in the study of right-triangle trigonometry and circles. Students begin to formally prove results about the geometry of the plane by using previously defined terms and notions. The similarity is explored in greater detail, with an emphasis on discovering trigonometric relationships and solving problems with right triangles. The correspondence between the plane and the Cartesian coordinate system is explored when students connect algebra concepts with geometry concepts. Students explore probability concepts and use probability in real-world situations. The major mathematical ideas in the Geometry course include geometric transformations, proving geometric theorems, congruence and similarity, analytic geometry, right-triangle trigonometry, and probability.

**Prerequisites:** Honors Algebra 1 with a "C" or higher and a teacher recommendation

**Graduation Requirement:** Math

### MATHEMATICS FOR THE TRADES

Course # MAT39321, MAT39322

Grade Level:11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: No

**Course Description:** Math for the Trades is a two-semester course that provides the practical and functional mathematics skills needed in a wide variety of trade, technical, and other occupational areas, including plumbing, automotive, electrical and construction trades, machine technology, landscaping, HVAC, allied health, and many more. Special attention has been given to on-the-job math skills by using a wide variety of real problems and situations. It is especially intended for students who find math challenging. A complete review of arithmetic, algebra, geometry, and word problems ensures the improvement of these essential math skills. Many problems parallel those that appear on professional and apprenticeship exams. It provides a direct, practical approach that emphasizes careful, complete explanations and actual on-the-job applications. Course goals will focus on preparing the student with an adequate understanding of occupational math to enter a technical trade, community college, or the work force.

**Prerequisites:** Algebra 1

**Graduation Requirement:** Math

### PRE-CALCULUS

Course # MAT35901, MAT35902

Grade Level: 11-12

Duration 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Pre-Calculus is a College Preparatory course for students who have successfully completed Advance Algebra. It prepares students for success in calculus and higher mathematics. Units of instruction include the graphing of polynomial, rational, exponential, and logarithmic functions, trig functions and identities, vectors, polar equations, and limits.

**Prerequisites:** Algebra II with a "C" or higher and teacher recommendation

**Graduation Requirement:** Math

## PHYSICAL EDUCATION

### PRE-CALCULUS, HONORS

Course # MAT35801, MAT35802

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** Honors Pre-Calculus is a College Preparatory course for students who have successfully completed Honors Geometry or Honors Algebra 2. It prepares students for success in calculus and higher mathematics. Honors Pre-Calculus combines concepts of trigonometry, geometry, and algebra that are needed to prepare students for the study of calculus. The course strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems. Faculty with these topics is especially important for students who intend to study calculus, physics, other sciences, and engineering in college. The main topics in the Honors Pre-Calculus course are complex numbers, rational functions, trigonometric functions, and their inverses, inverse functions, vectors and matrices, and parametric and polar curves.

**Prerequisites:** Algebra II with a "C" or higher and teacher recommendation

**Graduation Requirement:** Math

### QUANTITATIVE REASONING WITH DATA SCIENCE

Course # MAT39911, MAT39912

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** Quantitative Reasoning with Data Science is a two-semester course that provides a general survey of mathematical topics that are useful in our contemporary world such as Number Theory, Functions and Modeling, Finance, Geometry and Measurement, Probability and Statistics, and Logic. The course also incorporates Data Science where students are introduced to foundational concepts in Statistics and analyze data using multiple methods covering topics such as Functions, Looping and Iteration, Data Visualization, Data Analysis, and more. The general purpose is to better prepare college and career-bound students with the 21st-century skills necessary to meet the mathematical thinking and problem-solving expectations of future math courses and workplace requirements. The course is ideal for students interested in both STEM and non-STEM majors such as business, social sciences, or the arts at the postsecondary level but who still would like to continue developing their mathematical skills while preparing for attendance at a CSU or UC. Course goals will focus on preparing the student with an adequate understanding of quantitative reasoning skills to enter Algebra 2 or AP Statistics.

**Prerequisites:** Algebra 1 and Geometry

**Graduation Requirement:** Math

### STATISTICS, ADVANCED PLACEMENT

Course # MAT36001, MAT36002

Grade Level: 11-12

Duration 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** AP Statistics is a course that includes topics that prepare college-bound students for mathematics in both liberal arts majors and mathematics/engineering majors. The course content includes descriptive statistics, probability, probability distributions, estimates and sample sizes, experimental designs, correlation and regression, and statistical inference.

**Prerequisites:** Advanced Algebra with "C" or higher

**Graduation Requirement:** Math

# PHYSICAL EDUCATION CONT'D

## INTRODUCTION TO KINESIOLOGY 1

Course # PE53011, PE53012

Grade Level: 9

Duration: Quarter

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students will learn through a comprehensive, sequentially planned kinesiology program aligned with the California Model Content Standards for Physical Education. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activities for a lifetime. Emphasis may include, but is not limited to, Cardiovascular fitness, Individual/Dual Activities, Rhythm/Dance, Combative, Outdoor Activities, Aerobics, and Team Activities. The purpose of the Introduction to Kinesiology class is to provide the student with a variety of activities and experiences. The class is designed to meet the needs of the student and allow the student to develop a sense of well-being, self-esteem, cooperation, and confidence throughout the school year. Through an ongoing process of articulated and sequential development of skills, talents, attitudes, and behaviors, students are enabled to become physically educated and fit to enjoy a variety of physical activities and become committed to a lifetime of health and physical well-being. Introduction to Kinesiology introduces the beginning skills to become competent in a variety of activities. This course also provides ample practice and improvement to pass the California State Physical Fitness Test. Literacy skills will be used to analyze and critique. Students will read about, write about, talk about, reflect on, and make connections and choices while performing a variety of physical fitness activities.

**Prerequisites:** None

**Graduation Requirement:** Physical Education

## INTRODUCTION TO KINESIOLOGY 2

Course # PE53021, PE53022

Grade Level: 10-12

(Repeatable for Credit)

Duration: Quarter

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students will learn through a comprehensive, sequentially planned kinesiology program aligned with the California Model Content Standards for Physical Education. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activities for a lifetime. Emphasis may include, but is not limited to, Cardiovascular fitness, Individual/Dual Activities, Rhythm/Dance, Combative, Outdoor Activities, Aerobics, and Team Activities. The purpose of the Introduction to Kinesiology class is to provide the student with a variety of activities and experiences. The class is designed to meet the needs of the student and allow the student to develop a sense of well-being, self-esteem, cooperation, and confidence throughout the school year. Through an ongoing process of articulated and sequential development of skills, talents, attitudes, and behaviors, students are enabled to become physically educated and fit to enjoy a variety of physical activities and become committed to a lifetime of health and physical well-being. Introduction to Kinesiology introduces the beginning skills to become competent in a variety of activities. This course also provides ample practice and improvement to pass the California State Physical Fitness Test. Literacy skills will be used to analyze and critique. Students will read about, write about, talk about, reflect on, and make connections and choices while performing a variety of physical fitness activities.

**Prerequisites:** None

**Graduation Requirement:** Physical Education

## ADVANCED KINESIOLOGY 3, AEROBICS

Course # PE53031, PE53032

Grade Level: 10-12

(Repeatable for Credit)

Duration: Quarter

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students have the opportunity to learn through a comprehensive, sequentially planned Kinesiology program aligned with

the California Model Content Standards for Physical Education. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activities for a lifetime. The purpose of the Advanced Kinesiology Course 3 Speed with an emphasis on Aerobics class is to provide the student with a variety of activities and experiences. The class is designed to meet the needs of the student and allow the student to develop a sense of well-being, self-esteem, cooperation, and confidence throughout the school year. Through an ongoing process of articulated and sequential development of skills, talents, attitudes, and behaviors, students are enabled to become physically educated and fit to enjoy a variety of physical activities and become committed to lifetime health and physical wellbeing. Advanced Kinesiology Course 3 with an emphasis on Aerobics introduces the beginning skills to become competent in a variety of activities. The overarching purpose of this course and other Kinesiology courses is to facilitate the transition from the physical education instructional program to participation in lifelong physical activity. Literacy skills will be used to analyze and critique. Students will read about, write about, talk about, reflect on, and make connections and choices while performing a variety of physical fitness activities.

**Prerequisites:** Introduction to Kinesiology 2 or instructor approval

**Graduation Requirement:** Physical Education

## ADVANCED KINESIOLOGY 3, BASKETBALL

Course # PE53081, PE53082

Grade Level: 10-12

(Repeatable for Credit)

Duration: Quarter

**Course Description:** Students have the opportunity to learn through a comprehensive, sequentially planned Kinesiology program aligned with the California Model Content Standards for Physical Education. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activities for a lifetime. Emphasis may include but is not limited to, Cardiovascular Fitness, and Team Activities, with a focus on Basketball. The purpose of the Advanced Kinesiology Course 3 Basketball class is to provide the student with a variety of activities and experiences. The class is designed to meet the needs of the student and allow the student to develop a sense of well-being, self-esteem, cooperation, and confidence throughout the school year. Through an ongoing process of articulated and sequential development of skills, talents, attitudes, and behaviors, students are enabled to become physically educated and fit to enjoy a variety of physical activities and become committed to lifetime health and physical well-being. The Advanced Kinesiology Course 3 Basketball is an intermediate to advanced level class which emphasizes advanced fundamental movement skills, offensive/defensive strategy, and team concepts. Course 3 Basketball is meant for those students who wish to improve their basketball skills. The overarching purpose of this course and other Kinesiology courses is to facilitate the transition from the physical education instructional program to participate in lifelong physical activity. Literacy skills will be used to analyze and critique. Students will read about, write about, talk about, reflect on, and make connections and choices while performing a variety of physical fitness activities.

**Prerequisites:** Introduction to Kinesiology or instructor approval

**Graduation Requirement:** Physical Education

## ADVANCED KINESIOLOGY 3, TENNIS

Course # PE53061, PE53062

Grade Level: 10-12

(Repeatable for Credit)

Duration: 1 Year

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students have the opportunity to learn through a comprehensive, sequentially planned Kinesiology program aligned with the California Model Content Standards for Physical Education. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activities for a lifetime. Emphasis may include but is not limited to, Cardiovascular Fitness, and Team Activities, with a focus on Basketball. The purpose of the Advanced Kinesiology Course 3 Tennis class is to provide the student with a variety of activities and

experiences. The class is designed to meet the needs of the student and allow the student to develop a sense of well-being, self-esteem, cooperation, and confidence throughout the school year. Through an ongoing process of articulated and sequential development of skills, talents, attitudes, and behaviors, students are enabled to become physically educated and fit to enjoy a variety of physical activities and become committed to lifetime health and physical well-being. The Advanced Kinesiology Course 3 Tennis class promotes and develops the growth of tennis and the lifetime benefits of tennis. Skills learned now will enable kids to embrace an active lifestyle throughout their lives. Tennis stimulates the mind, body, and emotions and fosters cooperative and competitive skill development. The overarching purpose of this course and other Kinesiology courses is to facilitate the transition from the physical education instructional program to participation in lifelong physical activity. Literacy skills will be used to analyze and critique. Students will read about, write about, talk about, reflect on, and make connections and choices while performing a variety of physical fitness activities.

**Prerequisites:** Introduction to Kinesiology Course 2 or instructor approval

**Graduation Requirement:** Physical Education

### ADVANCED KINESIOLOGY 3, WEIGHT TRAINING

Course # PE3051, PE3052

Grade Level: 10-12

(Repeatable for Credit)

## SCIENCE

Duration: Quarter

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students have the opportunity to learn through a comprehensive, sequentially planned Kinesiology program aligned with the California Model Content Standards for Physical Education. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activities for a lifetime. The purpose of the Advanced Kinesiology Course 3 Weight Training is to provide the student with a variety of activities and experiences. The class is designed to meet the needs of the student and allow the student to develop a sense of well-being, self-esteem, cooperation, and confidence throughout the school year. Through an ongoing process of articulated and sequential development of skills, talents, attitudes, and behaviors, students are enabled to become physically educated and fit to enjoy a variety of physical activities and become committed to lifetime health and physical well-being. This course is designed to teach the student the basic skills and benefits of weight training. Students will understand the musculoskeletal system and the principles of biomechanics to become lifelong weight lifters. Students will gain knowledge of the proper safety equipment and procedures to be used in the weight room. Literacy skills will be used to analyze and critique. Students will read about, write about, talk about, reflect on, and make connections and choices while performing a variety of physical fitness activities.

**Prerequisite:** Introduction to Kinesiology Course 2 or instructor approval

**Graduation Requirement:** Physical Education

### INTRODUCTION TO KINESIOLOGY, DANCE

Course # PE53001, PE53002

Grade Level: 9-12

Duration: Quarter

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Engagement in activities directed toward the refinement and master-of-dance skill and vocabulary, artistic perception, creative expression, historical and cultural context, aesthetic valuing, and the application and performance of learned knowledge in composition and technical mastery.

**Prerequisites:** None

**Graduation Requirement:** Physical Education, Visual/Performing Art

### INTERSCHOLASTIC ATHLETICS

Course # PE532001, PE532002

Grade Level: 10-12

Duration: Quarter

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students will learn through a comprehensive, sequentially planned kinesiology program aligned with the California Model Content Standards for Physical Education. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activities for a lifetime. Emphasis may include, but is not limited to, Cardiovascular fitness, Individual/Dual Activities, Rhythm/Dance, Combative, Outdoor Activities, Aerobics, and Team Activities. The purpose of the Interscholastic Athletics PE course is to provide the student with a variety of activities and experiences, going further than the exposure that was provided in Kinesiology 1. The class is designed to meet the needs of the student-athletes and allow them to develop a sense of well-being, self-esteem, cooperation, and confidence throughout the school year. Through an ongoing process of articulated and sequential development of skills, talents, attitudes, and behaviors, students are enabled to become physically educated and fit to enjoy a variety of physical activities and become committed to a lifetime of health and physical well-being.

**Prerequisites:** Introduction to Kinesiology 1, and coach approval.

**Graduation Requirement:** Physical Education

### BIOLOGY THE LIVING EARTH

Course # SCI53611, SCI53612

Grade Level: 10-11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This laboratory science course is designed for college-bound students as an introductory course in biological science. This course is a standards-based course that addresses biology from a molecular perspective. It involves extensive laboratory work as well as the extensive use of the scientific method through the collection of data and observation.

**Prerequisites:** CP Earth Science with a "C" or higher and completion of or concurrent enrollment in Algebra (Earth Science to CP Biology requires teacher recommendation)

**Graduation Requirement:** Biology

### BIOLOGY THE LIVING EARTH, HONORS

Course # SCI53631, SCI53632

Grade Level: 10-11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This laboratory science course is designed for the Gifted and Talented student as an introductory course in biological science. This course is a standards-based course that addresses biology from a molecular perspective. It involves extensive laboratory work as well as the extensive use of the scientific method through the collection of data and observation. Students will do a research project that involves individual problem-solving and organizational skills.

**Prerequisites:** Honors Physical Science and Algebra with "C" or higher

**Graduation Requirement:** Biology

### BIOLOGY, ADVANCED PLACEMENT

Course # SCI54601, SCI54602

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. AP Biology should include those topics regularly covered in a college biology course for majors. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. AP Biology is a course intended for students who can do college-level work while still in high school. To get college credit, students must complete the course work and pass the College Board Examination. The College Board Examination is very rigorous. To best prepare students for the exam, the course is intense and fast-paced. College-level work is expected of students and grading will reflect that expectation. **Prerequisites:** CP Biology or

## SCIENCE CONT'D

Honors Biology or CP Chemistry or Honors Chemistry with a "C" or higher and teacher recommendation

**Graduation Requirement:** Biology

### **APPLIED CHEMISTRY AND BIOTECHNOLOGY, HONORS**

Course # CTE820101, CTE820102

Grade Level: 11

Duration: Quarter

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course allows students to investigate and apply chemistry and biotechnology concepts and methods to understand and address issues related to five essential human needs-Water, Food, Health, Waste Management, and Energy-as Chemistry and Biotechnology complement each other in addressing these essential needs. Human diseases, for example, are treated by either small molecule drugs produced by chemistry or protein-based drugs produced by biotechnology, and environmental contaminants can be cleaned up either using chemistry or microbes. Whether a chemistry or biotechnology solution works best depends on the specific nature of the problem, and often both approaches to the problem are necessary for optimal resolution. In this course, students will study the methods necessary to test, clean, and protect our water resources, understand the molecular components and energy in their food, and research genetically modified foods and their role concerning health issues, environmental issues, and family and consumer rights, investigate human disease, evaluate common food and environmental substances that cause disease, analyze local flora for a potential drug develop to cure diseases, develop solutions to waste management problems and produce a usable fuel from a waste product produced by human activity. Throughout the course, students will be required to research and develop solutions to threats in these areas of essential needs.

**Prerequisites:** Algebra I

**Graduation Requirement:** Chemistry

**College Credit Through Articulation:** Yes

### **THE SCIENCE & ETHICS OF BIOTECHNOLOGY, HONORS**

Course # CTE830101, CTE830102

Grade Level: 12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Modern biological and laboratory techniques have opened a wide range of topics and opportunities for secondary students to explore and experience. Intending to build understanding and mastering essential laboratory techniques, students examine concepts and conduct relevant and authentic laboratory investigations. Students review and extend learning in cell biology, biomolecules and atomic structure, DNA, gene expression and genetic code, evolution, physiology, and energy and metabolism. Students apply this knowledge to the learning and practice of lab techniques used in academic, commercial, and medical laboratories, such as PCR, electrophoresis, transformation, and cell culture, and generate authentic and relevant products like those created and interpreted in any number of labs applying biotechnology. Additionally, students explore ways to communicate scientific information and ultimately produce a report in the form of a scientific journal article. A key aspect of this course is the examination of where ethics and biotechnological approaches intersect, and in each unit, students confront an ethical question related to the unit content and techniques.

**Prerequisites:** Algebra I or IM I and Biology

**Graduation Requirement:** Career Technical Education, Elective

### **THE TECHNOLOGY OF BIOLOGY**

Course # SCI19601, SCI19602

Grade Level: 9-10

Duration: 1 year

Meets UC/CSU Entrance Requirement: Biology Lab D

**Course Description:** This one-year course for 9th and/or 10th graders serve to introduce the principles of biology through a biotechnological perspective. A general high school biology class focuses on the study of life ranging from the atoms that build up the macromolecules that serve as the foundation of life to how different ecosystems interact within a biosphere. Biotechnology aims to help improve our lives and the health

of our planet by harnessing cellular and biomolecular processes. Students will use an integrated approach to study the principles that govern life while constantly referring to how these applications of biotechnology are attempting to improve life on earth. For example, modern biotechnology provides groundbreaking products and technologies to combat diseases, reduce our environmental footprint, feed the hungry, use less and cleaner energy, and have safer, cleaner, and more efficient industrial manufacturing. This course challenges students to honestly evaluate the current problems faced in the 21st century and apply their knowledge of foundational biology to propose possible solutions using biotechnological techniques. Upon completion of the course, students will identify a medical or environmental problem, research possible products of biotech companies that are attempting to address that problem, prepare an advertisement campaign to educate the public about the identified problem, and justify why their product is the answer. Upon successful completion of the course, students will have a better understanding of current biological concepts and biotechnological applications.

**Prerequisites:** Algebra I or IM I

**Graduation Requirement:** Biology

### **CHEMISTRY, ADVANCED PLACEMENT**

Course # SCI154701, SCI154702

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake second-year work in the chemistry sequence at their institution as a freshman or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. This course is lab-based and aligns with the Next Generation Science Standards.

**Prerequisites:** CP Biology or Honors Biology or CP Chemistry or Honors Chemistry with "C" or higher and teacher recommendation

**Graduation Requirement:** Physical Science

### **CHEMISTRY IN THE EARTH SYSTEM**

Course # SCI53311, SCI53312

Grade Level: 11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is a course designed for college-bound students. This course utilizes mathematics to solve chemical problems in organic and inorganic chemistry. Students should have a strong background in Algebra. Many laboratory experiments are done using chemicals to prepare students for college laboratory work.

**Prerequisites:** CP Biology and Algebra with a "C" or higher in both

**Graduation Requirement:** Physical Science

### **CHEMISTRY IN THE EARTH SYSTEM, HONORS**

Course # SCI53331, SCI53332

Grade Level: 10-11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is a course designed for Gifted and Talented students. This course utilizes mathematics through logarithms to solve chemical problems in organic and inorganic chemistry. Students should have a strong background in Algebra and Trigonometry. Many laboratory experiments are done using chemicals to prepare students for college laboratory work.

**Prerequisites:** Honors Physical Science and Algebra with a "C" or higher OR Honors Biology with a "C" or higher and teacher recommendation

**Graduation Required:** Physical Science

### **INTRODUCTION TO PHYSICAL SCIENCE**

Course # SCI52521, SCI52522

Grade Level: 9

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is a course that combines earth science and physics. This course covers the physical laws and properties of the

earth. Students will do extensive lab work that involves making observations and constructing hypotheses from the data collected. Labs and activities are integral to the course.

**Prerequisites:** None

## SOCIAL SCIENCE

**Graduation Requirement:** Physical Science

### ENVIRONMENTAL SCIENCE, ADVANCED PLACEMENT

Course # SCI55301, SCI55302                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** AP Environmental Science is a course designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

**Prerequisites:** CP Biology or Honors Biology or CP Chemistry or Honors Chemistry with “C” or higher and teacher recommendation

**Graduation Requirement:** Physical Science

### HUMAN ANATOMY AND PHYSIOLOGY

Course # SCI55101, SCI55102                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed for the student who intends to pursue vocational preparation or a career at an entry-level in the health career field. This laboratory science course will cover human anatomy and physiology.

**Prerequisites:** CP Biology with a “C” or higher and teacher recommendation

**Graduation Requirement:** Biology

**MJC Credit Through Articulation:** Yes

### PHYSICS IN THE UNIVERSE, HONORS

Course # SCI52531, SCI52532                      Grade Level: 9

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is a standards-based introductory course in high school physics. This course covers physical laws and physical properties. This will provide students with the knowledge to continue further study in science. The student should be a strong reader as well as be enrolled in Algebra or higher. The course involves extensive laboratory work that is directed by the use of the scientific method.

**Prerequisites:** Junior High School H/G Physical Science and Algebra with “C” or higher in both

**Graduation Requirement:** Physical Science

### PHYSICS IN THE UNIVERSE

Course # SCI55201, SCI55202                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is a standards-based course in high school physics. This course covers physical laws and physical properties. The student should be a strong reader as well as be enrolled in Algebra or higher. The course involves extensive laboratory work that is directed by the use of the scientific method.

**Prerequisites:** Earth Science, Biology, Chemistry

**Graduation Requirement:** Physical Science

### PHYSICS, ADVANCED PLACEMENT

Course # SCI54801, SCI54802                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is a college-level introductory physics course that prepares the student to take the Advanced Placement Physics examination. The topics covered include mechanics, kinetic theory, thermodynamics, electricity and magnetism, and waves and optics.

**Prerequisites:** CP Biology or Honors Biology or CP Chemistry or Honors Chemistry and Pre-Calculus with “C” or higher and teacher recommendation

**Graduation Requirement:** Physical Science

### EUROPEAN HISTORY, ADVANCED PLACEMENT

Course # SOC56901, SOC56902

Grade Level: 10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed to be the equivalent of a two-semester introductory college or university European history course with the ultimate goal of having each student pass the AP examination in May. It is expected that all students enrolled in this course take the AP exam. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time, demonstrating these skills through writing. AP European History is organized according to six themes that students explore throughout the course to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.

**Prerequisites:** Honors English 1-2 or CP English 1-2, teacher recommendation, and concurrent enrollment in Honors English 3-4, or CP English 3-4

**Graduation Requirement:** World History

### HUMAN GEOGRAPHY, ADVANCED PLACEMENT

Course # SOC56611, SOC56612

Grade Level: 9

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This advanced level course in Human Geography will introduce students to the “systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth’s surface.” (CollegeBoard.com) The curriculum is based upon the National Geography Standards developed in 1994.

**Prerequisites:** None

**Graduation Requirement:** World Geography and Religions

### PSYCHOLOGY I

Course # SOC59001, SOC59002

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** The purpose of this course in Psychology is to introduce students to the study of the behavior and mental processes of human beings. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice.

**Prerequisites:** Teacher recommendation

**Graduation Requirement:** Elective

### PSYCHOLOGY, ADVANCED PLACEMENT

Course # SOC54611, SOC54612

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, theories, and phenomena associated with each of the major subfields within psychology. They also learn ethics and research methods used by psychologists in their applied science and practice.

**Prerequisites:** Teacher recommendation

**Graduation Requirement:** Elective

### UNITED STATES HISTORY, ADVANCED PLACEMENT

## SOCIAL SCIENCE CONT'D

Course # SOC57401, SOC57402

Grade Level: 11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course with the ultimate goal of having each student pass the AP examination in May. It is expected that all students enrolled in this course take the AP exam. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time, demonstrating these skills through writing. AP U.S. History is organized according to seven themes that students explore throughout the course to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society.

**Prerequisites:** AP European History or CP World History and teacher recommendation and concurrent enrollment in AP English 5-6 or CP English 5-6

**Graduation Requirement:** US History

### UNITED STATES HISTORY, COLLEGE PREPARATORY

Course # SOC57601, SOC57602

Grade Level: 11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Building on previous U.S. history instruction, students in grade eleven examine major developments and turning points in United States history from the late 19th century to the present. Students will study a variety of themes in this course: a review of the nation's early years, the expanding role of the federal government, the development of a modern corporate economy, the role of labor, economic fluctuations, the impact of technology on U.S. society, the ever-changing demography, the role geography plays in the development of the United States, movements toward equal rights for all Americans, the rise of the U.S. as a world power, and the impact these issues have on the on-going development of U.S. society. Students will be expected to examine the evidence, undertake research, engage in written exercises of various lengths, and participate in oral presentations. Through encounters with multiple perspectives, primary sources, and secondary sources, this course will support the development of student literacy and inquiry skills, as well as critical thinking skills. These skills will prepare students for ELP AC and SBAC success.

**Prerequisites:** CP World History

**Graduation Requirement:** US History

### UNITED STATES GOVERNMENT AND POLITICS, ADVANCED PLACEMENT

Course # SOC57901, SOC57902

Grade Level: 12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Advanced Placement United States Government and Politics offers students an opportunity to participate in an analytical study of government and politics. The course is a study of state, district, and AP concepts and analysis of specific governmental issues and examples. While many approaches to the course are possible, through any approach students should become acquainted with the variety of theoretical perspectives, and explanations for various behaviors and outcomes. US Government and Politics require that students learn facts and concepts and understand typical political processes. Students will be required to interpret and apply political relationships between people and institutions and among different institutions. In addition to studying government in grade twelve, students master fundamental economic concepts, compare economic systems, and study the principles of micro and macroeconomics. Through the application of

graphs, statistics, and equations, students further their understanding of economic institutions. Advanced Placement classes require extra time on the student's part for reading the materials, completion of a large number of short and long written assignments, and research. The Advanced Placement course does not include a specific unit on state and local government; however, many of the topics and concepts will be presented in a general study of the pattern of intergovernmental relationships. Summer Project: Students should expect to complete a summer project in preparation for their later studies. The scope and type of the project shall be at the discretion of the individual instructor.

**Prerequisites:** AP US History or CP US History and teacher

## VISUAL AND PERFORMING ARTS

recommendation and concurrent enrollment in AP English Lit or CP English 7-8

**Graduation Requirement:** US Government and Economics

### US GOVERNMENT & ECONOMICS, COLLEGE PREPARATORY

Course # SOC58201, SOC58202

Grade Level: 12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Students in grade twelve pursue a deeper understanding of the institution of the American government. They compare systems of government in the world today and analyze the life and changing interpretations of the Constitution, the Bill of Rights, and the current state of legislative, executive, and judiciary branches of the government. In addition to studying government in grade twelve, students master fundamental economic concepts, compare economic systems, and study the principles of micro and macroeconomics. Through the application of graphs, statistics, and equations, students further their understanding of economic institutions. This course is intended for students who read at or above grade level, can work independently, and successfully complete a formal research project. Students enrolled in this course plan to attend a four-year college or university.

**Prerequisites:** CP US History with a grade of "C" or higher and concurrent enrollment in AP English Lit or ERWC

**Graduation Requirement:** US Government and Economics

### WORLD GEOGRAPHY/RELIGIONS

Course # SOC56701, SOC57602

Grade Level: 9

Duration: 1 Semester

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students in the ninth grade will examine the five themes of geography and understand the impact that geography has had on human development and events. Students will also examine the geographic location, cultural characteristics, historical development, major beliefs, and impact on world historic events of the six major world religions – Buddhism, Christianity, Hinduism, Islam, Judaism, and Sikhism. This class is required for graduation.

**Prerequisites:** None

**Graduation Requirement:** World Geography/Religions

### WORLD HISTORY, COLLEGE PREPARATORY

Course # SOC57101, SOC57102

Grade Level: 10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** The tenth-grade course covers more than 250 years and highlights the intensification of truly global history as people, products, diseases, knowledge, and ideas spread around the world as never before. The course begins with the important transition in European systems of governance from divine monarchy to a modern definition of a nation-state organized around principles of the Enlightenment. As students move through the years 1750 through the present, they consider how a modern system of communication and exchange drew peoples of the world into an increasingly complex network of relationships in which Europe and the United States exerted great military and economic power. Students explore and analyze the results of people, goods, ideas, and capital exchanges throughout and between Asia, Africa, the Americas, and Europe. The ability to see



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connections between events and larger social, economic, and political trends may be developed by having students consider the most fundamental changes of the era and make connections to current world situations. Students will be expected to examine the evidence, undertake research, engage in written exercises of various lengths, and participate in oral presentations. Through encounters with multiple perspectives, primary sources, and secondary sources, this course will support the development of student literacy and inquiry skills, as well as critical thinking skills. These skills will prepare students for ELPAC and SBAC success.

**Prerequisites:** World Geography and World Religions

**Graduation Requirement:** World History

### ART 1

Course # ART02501, ART02502

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Learn what the elements of art are. Learn how to manipulate these elements creatively in drawings, paintings, designs, and sculptures. Discover where artists acquire ideas and how to communicate these ideas clearly to viewers by using the principles of art. Study significant historical art periods and some of the contributing artists. Become aware of the influence of many cultures on our creative impressions. Learn about career opportunities in the Visual Arts. Develop skills in evaluation and aesthetic judgment. A variety of studio projects using numerous techniques and media are required. This is a prerequisite course for all other art classes. This course meets the fine arts entrance requirements for the University of California and California State Universities.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Art

### CERAMICS 1

Course # ART03301, ART03302

Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is a technical and aesthetic exploration of 3-dimensional design through the medium of clay. The course will also include 2-dimensional basic drawing and layout skills. The student will participate in a wide range of experiences using additive or subtractive sculpture techniques, designed to build artistic and creative confidence. Students will gain knowledge of the elements of art, and principles of design. While analyzing and making aesthetic judgments about their artworks. Students will gain experience by applying what they learn about clay and ceramics to exhibitions, other subject areas, careers in the field of ceramics, and the safe use of materials and equipment in the lab.

**Prerequisites:** Art 1-2

**Graduation Requirement:** Visual/Performing Art

### ADVANCED CERAMICS

Course # ART04001, ART04002

Grade Level: 11-12

Duration: 1 year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Advanced Ceramics is a technical and aesthetic exploration of 3-dimensional design in clay. They will discover how to use basic art concepts, including positive/negative, repetition, balance, texture, shape, form, and space. They will create objects based on ceramic projects from our culture as well as other cultures. They will develop skills in using the tools and techniques required to produce various types of sculpture. Projects are assigned to provide experience in a variety of techniques, including pinch, coil, slab, throwing, slump, sprigging, molding, and carving. Written research is required on three projects. Glaze experimentation is encouraged and kiln loading and firing is required.

**Prerequisite:** Ceramics 1-2

**Graduation Requirement:** Visual/Performing Art

### BAND 1-8

Course # MUS40391, MUS40392, MUS40401, MUS40402, MUS40451, MUS40452

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Concert Band is designed for entry-level students to develop skills and knowledge that will enhance their understanding and enjoyment of music. It is a continuation of instruction on the basics of playing the chosen band instrument started in junior high school, with added emphasis on introducing and developing entry-level musicianship, and band performance skills through study and performance of a variety of appropriate band literature. In Symphonic Band, students will interact with music through composing, improvising, transcribing, performing, and evaluating performances. Wind Ensemble is designed for advanced students to continue developing skills and knowledge that will enhance their understanding and enjoyment of music. It is a continuation of instruction on the basics of playing the chosen band instrument started in Concert or Symphonic Band, with added emphasis on developing advanced musicianship, and band performance skills through study and performance of a variety of appropriate band literature.

**Prerequisites:** Permission of instructor; student must meet academic/participation eligibility requirements first quarter

**Graduation Requirement:** Visual/Performing Art

### COLOR GUARD

Course # MUS43091, MUS43092

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is an auxiliary visual unit to the Marching Band. In the winter and spring, the class will perform and compete as a separate unit. Flags, rifles, and other visual props will be utilized. A dance performance will be a large part of the class. Certain co-curricular activities will be required.

**Prerequisites:** Meet academic/participation eligibility requirements during quarters in which Physical Education credit is earned

**Graduation Requirement:** Visual/Performing Art, Physical Education

### COSMETOLOGY

Course # CTE0730101, CTE0730102

Grade Level: 12

Duration: 1,600 Hours

Meets UC/CSU Entrance Requirements: No

**Course Description:** This course is designed to prepare individuals to qualify for and obtain an initial license as a professional Cosmetologist. It includes all phases of the career during the required 1600 clock hours. High school students will complete this course after graduation from high school.

**Prerequisites:** Entrance test at Cosmetology locations

**Graduation Requirement:** PRA, FPA, FAC, REG

### DRAWING AND PAINTING

Course # ART02901, ART02902

Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is an advanced art course with emphasis on the continued development and emphasis of Drawing and Painting course study.

**Prerequisite:** Art 1-2 and instructor approval

**Graduation Requirement:** Visual/Performing Art

### WATERCOLOR AND ACRYLICS

Course: # ART02701, ART02702

Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed to teach the techniques and fundamentals of watercolor and acrylic painting with an introduction to the appropriate materials in these media.

**Prerequisites:** Art 1-2, Drawing and Painting, and instructor approval

**Graduation Requirement:** Visual/Performing Art

### GRAPHIC DESIGN II

# VISUAL AND PERFORMING ARTS

Course: # CTE120401, CTE120402

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

Pathway Course: Graphic Design

**Course Description:** The Graphic Design course will explore the ever-changing trends in the global field of design and its application in print (two-dimensional), product, and environmental (three-dimensional). Students will understand the impact of the arts and design throughout history and in various cultures. Students will learn methods and theories such as the principles of design to enhance their artistic vision and style. Through two- and three-dimensional design projects students will develop problem-solving skills, artistic perception, critical thinking, and self-reflection. Art critiques and presentations will provide opportunities for students to grow as graphic designers. It provides an introduction to computer-generated print and beginning experience in motion graphics. Professional software will continue to be explored through demonstration and studio practice. This course is designed to develop students' skills and techniques and build upon complex ideation. Students will gain knowledge in creative expression, artistic perception, and aesthetic valuing. Strong emphasis will be on further examining typography, design, and layout in producing quality print collateral. A portfolio of artwork is created that reflects refined craftsmanship, technical skill, and personal style. Graphic Design gives the student the foundations to develop their technical knowledge and requisite skills needed for successful entry-level employment in media-related occupations and/or advanced post-secondary studies.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Art, Career Technical Education

## DSLR PHOTOGRAPHY 1-2

Course: # CTE0110401, CTE0110402

Grade Level: 9-10

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** DSLR (Digital single-lens reflex) Photography allows the student to acquire the technical knowledge and requisite skills needed for successful entry-level employment in media-related occupations and/or advanced post-secondary studies. It provides training in still picture acquisition, graphic editing and retouching, presentation graphics and systems (electronic & print), lighting design, special effects and titling, multimedia workflows, as well as studio-based and field (location) photo production on both DSLR and Mirrorless cameras. Course content is structured through lecture-laboratory experiences as it relates to individual and group projects. The course will address what it means to critically evaluate your photographs and those of others within an art context. Each student will complete a portfolio of his/her work.

**Prerequisites:** Consent of the instructor

**Graduation Requirement:** Visual/Performing Art, and Practical Art

## DSKTP PUBL AND PHOTO JOURNAL

Course # CTE0120501, CTE0120502

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This two-semester course combines the high-level critical thinking, reading, and writing skills of print journalism with the artistic, creative, and aesthetic skills of visual and graphic arts, photography, and computer technology. Students master the writing and editing of the most common forms of journalistic stories; learn and practice the basics of design and layout and its role in the communication process; analyze, evaluate and create images based on a set of given values; develop and apply a basic understanding of desktop publishing; learn communication, time management, and evaluation skills as individuals and with small teams; use state-of-the-art word processing and design software, and demonstrate knowledge and understanding of ethical responsibilities and communications law. This course will sharpen students' thinking and expression, widen their experience with people and communication, provide an environment for self-directed learning and give them confidence in their ability to see their creative ideas to completion through photography, writing, design, and the culmination of these in creating newsletters, posters,

programs, brochures, and yearbook production. This course prepares students for entry-level work in the fields of desktop publishing, marketing, journalism, publication and design, editing, graphic design, photography, product development, or other areas that utilize desktop publishing.

**Prerequisites:** Earn a C or higher in previous English courses. Students must also have a teacher recommendation and permission of the instructor AND complete one of the following courses: Introduction to Graphic Design 1-2 or DSLR Photography

**Graduation Requirement:** Visual/Performing Art

## GUITAR 1

Course # MUS40051, MUS40052

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is open to students who demonstrate an interest in learning to play the acoustical guitar for self-enjoyment and as an aide in accompanying themselves either in individual or group singing. The course will include basic chords used on the guitar, tuning the instrument, basic music theory as related to guitar, melodic playing, barre chords, and tablature.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Art

## JAZZ BAND

Course # MUS40591, MUS40592

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This year-length course is open to all grade levels by audition only. It is designated to teach young musicians to play in varied jazz idioms. It emphasizes improvisation, as well as reading printed music.

**Prerequisites:** Enrollment in Band 1-8 or permission of instructor and audition

**Graduation Requirement:** Visual/Performing Art

## MARCHING BAND

Course # MUS42890

Grade Level: 9-12

Duration: 1 Semester

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** The goal of this course is for students to demonstrate an understanding of skills and

movement through their participation in the following activities: Parades, field shows, community events, and indoor performing arts ensembles. Through regular lessons and rehearsals, students will illustrate skill development using assigned performance tasks. Students will recognize and identify needed performance task revisions using feedback from instructors, music directors, and video/audio taped adjudicator comments. Students will be required to participate in 400 minutes of rehearsal every 10 days to receive physical education credit. These rehearsals may occur after school and on Saturdays. Students will participate in a culminating work that will be performed at football games, community events, or adjudicated competitions. Students will reflect/analyze their performances as well as reflect/analyze performances of other performing groups of various styles and periods at festival competitions at the local and regional levels. All students will participate in periodic performance-based assessments at the school site.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Art

## ORAL INTERPRETATION AND PERFORMING ARTS

Course # ENG04801, ENG04802

Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** Oral Interpretation is one of the oldest human social activities; a speaker gives life to words on a page. Students will analyze the meaning and feeling behind these words of poetry, prose, and dramatic literature, respond to the sensory information of the literature and use the voice and body to share this with others. Through the art of oral interpretation, students will learn an appreciation for literature in its varied forms and develop skills for the oral presentation of the literature.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Arts/Practical Arts

## VISUAL AND PERFORMING ARTS

### PIANO

Course # MUS42291, MUS42292 Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is open to students who has little or no experience playing the piano. Basics will be covered in music theory and its application to the keyboard, hand-to-hand coordinator, note reading, and chord playing. Students will learn to read music and lay the piano at a basic level.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Art

### STRING ORCHESTRA

Course # MUS40891, MUS40892 Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is orchestral (ensemble) training at an advanced level. The course includes drills on fundamentals, advanced orchestra literature, sight-reading, and rehearsal to improve general playing technique. Outstanding orchestra literature of advanced grades will be performed. The orchestra performs at concerts and festivals.

**Prerequisites:** Recommendation of instructor

**Graduation Requirement:** Visual/Performing Art

### SPEECH

Course # ENG14501, ENG14502 Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements:

**Course Description:** This course provides an introduction to the fundamentals of public speaking and debating; special attention is given to the development of poise and self-confidence in front of an audience.

**Prerequisites:** None

**Graduation Requirements:** Practical Arts

### ADVANCED SPEECH

Course # ENG14601, ENG14602 Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed for those students who wish to enter a forensic competition. The class provides instruction and practice opportunities for students involved in competitive events, e.g., Debate, Lincoln-Douglas Debate, Dramatic and Humorous Interpretation, Impromptu, Extemporaneous, Oratory, and Expository.

**Prerequisites:** Speech 1 or recommendation of instructor

**Graduation Requirement:** Visual/Performing Art

### THEATRE

Course # ENG15641, ENG15642 Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: Yes

**Course Description:** This course is designed to allow students an opportunity to explore the elements of drama as well as various

techniques of acting. Students will develop a common vocabulary of theatre and progress through a prescribed set of monologue and scene work which includes various styles and eras of dramatic literature. Students will develop an understanding of acting techniques, develop an appreciation of theatre as an art form, analyze text and character, perform in short, a one-act-play, and write an original scene or monologue. Students who participate in theatre develop concentration, language skills, and creative problem-solving. They participate in storytelling, creative drama, acting techniques, and devising theatre. Theatre teaches cooperation and empathy, develops decision-making skills, promotes the exchange of knowledge, builds confidence and self-esteem, refines presentation skills, encourages self-acceptance and acceptance of others, features of empowerment, pride in work, responsibility, problem-solving, and management.

**Prerequisites:** None

**Graduation Requirements:** Elective

### THEATER STAGECRAFT

Course # ENG15651, ENG15652

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is a production-based class wherein students learn all aspects of dramatic production including acting, scenic design and production, costume design and construction, prop building, lighting and sound design, stage management, and publicity. Students have real-world experience of performing/working to perform for an audience.

**Prerequisites:** None

**Graduation Requirement:** Visual/Performing Art

### VIDEO ARTS AND PRODUCTION I-2

Course: # CTE0120701, CTE0120702

Grade Level: 10-11

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Video Arts and Production allows the students to acquire the technical knowledge and requisite skills needed for successful entry-level employment in media-related occupations, and/or advanced post-secondary studies. It provides training in still and motion picture acquisition, non-linear editing, presentation graphics and systems (electronic and print), sound and lighting design, digital animation, special effects and titling, multimedia workflows, as well as studio-based and field (location) video production. Course content is structured through lecture-laboratory experiences as it relates to individual and group projects. Each student will complete a portfolio of his/her work.

**Prerequisites:** Successful completion of Art 1-2, GRC 1-2, Photography, 3D Computer Graphics and Animation, or an equivalent course with a "C" or higher, or instructor approval

**Graduation Requirement:** Visual/Performing Art, and Practical Art, Career Technical Education

### VIDEO AND MEDIA PRODUCTION

Course # CTE0130801, CTE0130802

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** Video and Media Production allows the student to acquire the technical knowledge and requisite skills needed for successful entry-level employment in media-related occupations and/or advanced post-secondary studies. It provides training in still and motion picture acquisition, non-linear editing, presentation graphics and systems (electronic & print), sound and lighting design, digital animation, special effects and titling, multimedia workflows, as well as studio-based and field (location) video production. Course content is structured through lecture-laboratory experiences as it relates to individual and group projects. Each student will complete a portfolio of his/her work.

**Prerequisites:** Successful completion of Art 1-2, GRC 1-2, Photography, Video Arts and Production, or an equivalent course with a "C" or higher, or instructor approval

**Graduation Requirement:** Visual/Performing Arts

### SPANISH I

Course # FOR20001, FOR20002

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed for Level I students. Students will develop a basic understanding of the major communication skills.

**Prerequisites:** None

## OTHER ELECTIVES

**Graduation Requirement:** Visual/Performing Art

### SPANISH II

Course # FOR20101, FOR20102

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed for students who have successfully completed Spanish I. When enrolling in a single level II class, students will learn to use the language independently to inform, narrate, describe, question, negotiate simple transactions, and express

## OTHER ELECTIVES CONT'D

personal needs. They will also begin to talk and write about future and past events. There will be an increased focus on reading and writing strategies.

**Prerequisites:** Successful completion of Spanish I with a "C" or higher or teacher recommendation

**Graduation Requirement:** Visual/Performing Art

### SPANISH III

Course # FOR20201, FOR20202                      Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is designed for students who have successfully completed Spanish II. Students will develop the major communication skills appropriate for this level and will acquire knowledge and appreciation of the culture of the target language.

**Prerequisites:** Successful completion of Spanish II, teacher recommendation or a grade of "C" or higher

**Graduation Requirement:** Visual/Performing Art

### SPANISH FOR SPANISH SPEAKERS 3

Course # FOR24501, FOR24502                      Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is an entry-level Spanish course for native speakers of Spanish. The course is the first in a series of three levels leading to the AP Spanish Language exam (Level 5). It addresses the language arts content standards of reading and literary response and analysis, writing, writing conventions, listening and speaking. It is designed to strengthen communicative ability in Spanish in the interpersonal, presentational, and interpretative modes. Cross-cultural comparisons and cross-curricular connections are integrated throughout the course.

**Prerequisites:** Good communicative skills in oral Spanish; basic reading skills in English or Spanish

**Graduation Requirement:** Visual/Performing Art

### SPANISH FOR SPANISH SPEAKERS 5/ SPANISH LANGUAGE ADVANCED PLACEMENT

Course # FOR24701, FOR24702                      Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This course is equivalent to a fifth/sixth-semester college course. It will prepare students to take the AP Spanish Language and Culture exam and will be the first in a two-year curriculum for those students who continue to Spanish for Spanish Speakers 6/AP Spanish literature. It will provide a standard of Spanish literacy necessary for future university courses and career paths. The course addresses the language arts content standards of reading and literary response and analysis, writing, writing conventions, listening, and speaking. It is designed to strengthen communicative ability in Spanish in the interpersonal, presentational, and interpretative modes in the intermediate to the Pre-advanced range (ACTFL guidelines). Cross-cultural comparisons and cross-curricular connections are integrated throughout the course.

**Prerequisites:** Completion of Spanish for Spanish Speakers IV or teacher recommendation

**Graduation Requirement:** Visual/Performing Art

### ADVANCED PEER TUTOR

Course # ELE16701, ELE16702                      Grade Level: 11-12

Duration: Semester

Meets UC/CSU Entrance Requirement: No

**Course Description:** This course is designed for students with demonstrated competence in a subject area and who desire to act as a tutor or instructional aide in a classroom setting. Students will be expected to prepare for tutorial sessions and be willing to work with both individual students and small groups.

**Prerequisites:** The student must demonstrate high performance in the course to be tutored, be enrolled in CP or AP level course work in the subject area tutoring in, and must have at least a 2.5 GPA in the prior semester with no F's or U's

**Graduation Requirement:** Elective

### PEER ASSISTED LEADER

Course # ELE63711, ELE63712

Grade Level: 10-12

Duration: 1 Semester

Meets UC/CSU Entrance Requirement: No

**Course Description:** This course is designed for students who have an interest in working with special education students to assist them in obtaining the highest quality of high school experience possible. Before working with assigned students, PALS will complete a one-day training on behavior management, medical awareness, interpretation of I.E.P. goals and objectives, and record keeping. PALS will attend classes with their assigned students, help them find their way around campus, increase their socialization with regular education students, and/or participate in their community-based instruction programs. Students may repeat the course for a total of 20 units in combination with School Services.

**Prerequisites:** Students must apply and be screened by a teacher or psychologist

**Graduation Requirement:** Elective

### JOURNALISM 1

Course # ENG13801, ENG13802

Grade Level: 10-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students registered in this course will produce the school yearbook while gaining journalism experience and some experience in the allied fields of photo-journalism, art, pictorial essay construction merchandising, bookkeeping, and editing.

**Prerequisites:** Permission of instructor

**Graduation Requirement:** Practical Art

### ADVANCED JOURNALISM 3 (NEWSPAPER)

Course # ENG27601, ENG27602

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: Yes

**Course Description:** This is the class for a digital student newspaper. Learners in this course are the editorial leaders of the student newspaper, contributing to the digital publication of the newspaper through a variety of opportunities: writing articles, taking photographs, designing graphics, laying out the online publication, posting to social media, and exploring other forms of media such as video, podcasting, etc. Students in this course have already taken Introductory Journalism and developed a strong foundational understanding of journalistic ethics and practices as well as the societal role of journalism.

**Prerequisites:** Journalism 1-2

**Graduation Requirement:** Elective

### ADVANCED JOURNALISM 7 (YEARBOOK)

Course # ENG27601, ENG27602

Grade Level: 11-12

Duration: 1 Year

Meets UC/CSU Entrance Requirement: No

**Course Description:** Students registered in this course will produce the school yearbook while gaining journalism experience and some experience in the allied fields of photo-journalism, art, pictorial essay construction merchandising, bookkeeping, and editing.

**Prerequisites:** Permission of instructor

**Graduation Requirement:** Practical Art

### LEADERSHIP DEVELOPMENT

Course # ELE62801, ELE62802

Grade Level: 9-12

Duration: 1 Year

Meets UC/CSU Entrance Requirements: No

**Course Description:** Leadership Development will focus on those skills which will enhance the student's effectiveness in the application of interpersonal relationships, long-range goal setting, program planning, implementation, and evaluation. This course will provide continuity of planning through a cooperative learning-based curriculum. This will assist the student in developing a positive self-image while fostering problem-solving and communication skills

**Prerequisites:** None

**Graduation Requirement:** Elective

### SUCCESS SKILLS

Course # ELE63211, ELE63212

Grade Level: 9-10

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# Specific Programs of Instruction

## Pathways at Enochs High School

### **Forensics/Biotech Academy**

- 10<sup>th</sup> - Technology of Biology
- 12<sup>th</sup> - Applied Chemistry for Biotechnology
- 12<sup>th</sup> -The Science and Ethics of Biotechnology

### **Pre-Vet**

- 9<sup>th</sup> - Agriscience 1-2
- 10<sup>th</sup> - Biology and Sustainable Agriculture
- 11<sup>th</sup> - Agriscience Systems Management
- 12<sup>th</sup> - Veterinary Science

### **Cinema/Graphic Arts**

#### **Graphic Arts**

- 1<sup>st</sup> class: Graphic Design 1-2
- 2<sup>nd</sup> class: Advanced Graphic Design 3-4

#### **Photography**

- 1<sup>st</sup> class: DSLR Photography 1-2
- 2<sup>nd</sup> class: Advanced DSLR Photography 3-4

#### **Video**

- 1<sup>st</sup> class: Video Arts & Production 1-2
- 2<sup>nd</sup> class: Video & Media Production—Advanced

### **Computer Science**

#### **Information Support and Services**

- 1<sup>st</sup> class: Cybersecurity 1-2
- 2<sup>nd</sup> class: Cybersecurity 3-4
- 3<sup>rd</sup> class: Cybersecurity 5-6 **AND** Internship to Computer Science

#### **Software and Systems Development**

- 1<sup>st</sup> class: Exploring Computer Science **OR** 3D Graphics & Animation for CS
- 2<sup>nd</sup> class: Web Application Development **OR** Artificial Intelligence **OR** Video Game Development
- 3<sup>rd</sup> class: Software Engineering **AND** Internship to Computer Science

#### **Advanced Placement**

- 1<sup>st</sup> class: AP Computer Science Principles
- 2<sup>nd</sup> class: Honors Mobile Apps and Software Development
- 3<sup>rd</sup> class: AP Computer Science A— Advanced

*\*Students may take multiple 1st classes, 2nd classes, or 3rd classes concurrently. Internship in Computer Science requires concurrent enrollment with either 3rd class. AP Courses don't count toward CTE Completer status.*

# 2022-2023 MCS Math Prerequisites





