



[\(Vineyard School Website\)](#)

***Making a Difference, One Student at a Time***

**2022-2023  
COURSE CATALOG**

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# Graduation & College Entrance Requirements

(Alternate accessible version can be found as a link on same website page)

SUBJECT	VINEYARD HIGH	UC/CSU (A-G)
<b>Social Science &amp; History</b>	<b>35 Units</b> 1 trimester Social Science 9 2 trimesters World History 10 2 trimesters U.S. History 11 1 trimester Civics 12 1 trimester Economics 12	<b>(A) 20 Units</b> 2 trimesters World History 10 2 trimesters U.S. History 10
<b>English</b>	<b>40 Units</b> 2 trimesters English 9A/B 2 trimesters English 10A/B 2 trimesters English 11A/B 2 trimesters English 12/Core Options	<b>(B) 40 Units</b> 2 trimesters English 9A/B 2 trimesters English 10A/B 2 trimesters English 11A/B 2 trimesters English 12/Core Options
<b>Mathematics</b>	<b>20 Units</b> Must include completion of Algebra I	<b>(C) 30 Units</b> 2 trimesters Algebra 1A/B 2 trimesters Geometry A/B 2 trimesters Algebra II A/B (UC recommends 4 years/levels)
<b>Science</b>	<b>20 Units</b> 2 trimesters of Physical Science 2 trimesters of Biology May be lab or non-lab sciences	<b>(D) 20 Units</b> UC: 4 trimesters of lab science, 1 life & 1 physical. (UC recommends 3 years) CSU: 4 trimesters – 2 trimesters of a lab science & 2 can be non-lab
<b>Career Technical Education</b>	<b>30 Units</b> In at least two of these three categories: For example: 1 year of VPA and 2 years of World Language <b><u>or</u></b> 2 years of CTE and 1 year of VPA	Not counted in UC/CSU GPA
<b>World Language</b>		<b>(E) 20 Units</b> 4 trimesters (mastery of Level 2) of the same World Language (UC recommends Level 3)
<b>Visual &amp; Performing Arts</b>		<b>(F) 10 Units</b> 2 trimesters of the same Visual & Performing Arts
<b>Physical Education</b>	<b>20 Units</b> 2 trimesters PE 1A/1B 2 trimesters PE 2A/2B	Not counted in UC/CSU GPA
<b>Health</b>	<b>5 Units</b> 1 trimester Health	Not counted in UC/CSU GPA
<b>Electives</b>	<b>70 Units</b> Elective Courses (may include extra classes in math, science, etc.)	<b>(G) 10 Units (or more)</b> 2 trimesters of UC/CSU electives
<b>Required Tests</b>		<b>California State University:</b> SAT or ACT <b>University of California:</b> SAT or ACT Important Note : 110 units (11 courses of the required 15 courses) <b>Must</b> be completed by end of Junior year to be UC/CSU eligible.

# Post High School Planning

## **California Community College**

Students must hold a high school diploma or be 18 years of age to be eligible for entrance into a community college. At a community college, students can earn a Certificate or an Associate's Degree. Students can take courses that will allow them to transfer to a 4-year college or to directly enter the workforce.

## **California State University**

The California State University (CSU) system consists of 23 campuses that provide a student-focused education that is accessible and affordable for students. A 2.0 minimum GPA is required to apply to the CSU system. If a student has below a 3.0 GPA, they must meet the eligibility index [a combination of grades in "a-g" courses (see page 50) and SAT/ACT test scores]. Due to the number of students applying each year, several CSU campuses and particular majors have higher standards than others. CSUs offer both Bachelor's and Master's degrees.

## **University of California**

The University of California (UC) system consists of 10 campuses that provide a research-based education for students. Admission into a UC is more selective than the CSUs. Students who apply for a UC must earn a GPA of 3.0 or better in the "a-g" courses, with no grade lower than a C-, and meet the examination requirement by taking the ACT (with writing) or the SAT. Many UC campuses have higher standards for particular majors and, due to the number of students applying each year, several campuses have higher standards than others. UCs offer Bachelor's and Master's degrees and Doctoral programs.

## **Private and Out-of-State Colleges**

Due to the impact of 4-year public schools in California, many students decide to attend private or out-of-state colleges. These have different admissions requirements from the UC/CSU systems, and students must look at the unique requirements for each school and program.

## **Required Admissions Tests**

The UC/CSU systems require applicants to take either the SAT or the ACT test for admission. Most private and out-of-state colleges also require one or the other. If you are planning to attend a community college, you do not need to take the SAT or ACT test.

## **Western Undergraduate Exchange Program**

The Western Undergraduate Exchange Program (WUE) offers reduced tuition rates at participating 2-year and 4-year public colleges. Although the price tag for a private college education can be high, scholarships granted by the college may make the cost of attendance more affordable. Advantages of a private school often include smaller class sizes, financial assistance and a high likelihood of graduating in four years.

## **Military and Trade Schools**

Some students choose to join the military or attend a trade school as a fast path to a job right out of high school. Students who join the military will be employed 6 – 8 months after high school and will still have the option to attend college. To enlist, students must be 18 years old (or 17 with parental consent). Military recruiters are easily accessible to students at Vineyard.

Students who want to learn skills related to a specific job can go to a trade school or undertake an apprenticeship. Students who attend a trade school will enter the workforce within two years of

beginning a program. Students can attend a trade school for jobs such as a mechanic, welder, dental hygienist, medical assistant and construction.

**For more information about any of the above options, visit the Vineyard counselor.**

## **Frequently Asked Questions - Current Students**

### **What is concurrent enrollment? How do I concurrently enroll at other schools within the district?**

Concurrent enrollment is when a student takes courses at more than one school within the Livermore Valley Joint Unified School District. For example, a Vineyard student may take 2-3 core courses at Vineyard and enroll in Chemistry 1A at Livermore High School. Students can pick up concurrent enrollment forms at the Vineyard office. The form will need to be completed by a parent/guardian and submitted to the Vineyard administration. Please note, the Vineyard Counselor will connect with the counselors or Vice Principals from the other school to concurrently enroll a student.

### **What are ROP courses? How can I take ROP courses?**

ROP stands for Regional Occupational Program and offers students an opportunity to take a wide variety of career classes. Vineyard students can enroll in ROP classes. Speak to the Vineyard counselor for more information. ROP provides engaging learning opportunities for students eager to acquire career training and technical skills essential for employment. Many ROP programs offer students the opportunity to earn nationally recognized certifications or college credits and even the opportunity to start a career straight out of high school. Some ROP courses are offered at other Tri-Valley high school campuses. Students in those classes are responsible for transportation to off-campus sites. For more information about ROP, please visit [www.tvrop.org](http://www.tvrop.org) or go to page 21 in this course catalog.

### **Can I take classes at Las Positas College (LPC)?**

Vineyard students can take courses concurrently at Las Positas College while still in high school to either remediate a course or to enhance their curriculum. Information about concurrent enrollment at LPC can be found on the main page of the Vineyard website.

### **Can I participate in athletics at one of the district high schools?**

Vineyard students can participate in athletics at their high school of residence. Students will need to speak to the athletic director of their school of residence and will need to meet all district and North Coast Section (NCS) participation requirements. Please speak to the Vineyard principal and/or counselor to start the process of participating in athletics.

### **How can I participate in other activities, such as dances, senior activities, and other extracurricular activities?**

Speak to the Vineyard principal and/or counselor if you are interested in participating in activities at the other district schools. Vineyard students in good academic and behavior standing are provided the opportunity to participate in extracurricular activities at other district schools.

# Frequently Asked Questions - Prospective Students

## **What is Vineyard Independent Study?**

Vineyard is public school alternative offered through the Livermore Valley Joint Unified School District (LVJUSD). Vineyard is a fully WASC accredited high school. We offer UC/CSU approved college preparatory classes. In this program you will develop an individualized study plan that provides you the flexibility to do your school work around your schedule. Your success depends upon you and your goals. Vineyard Alternative is not a continuation school.

## **How do I enroll?**

Enrollment at Vineyard requires an inter-district transfer from your home school if you are already a student in the LVJUSD. If you are new to the district, contact your school of residence. If you do not know your school of residence, see the district web page at [Livermore District website](#).

## **What are the classes like?**

At Vineyard there are three primary ways to complete your coursework:

- One-on-one instruction: Students are assigned a teacher for each of their courses. Students meet with each teacher once a week to go through coursework, turn in completed assignments, and receive assignments for the next week.
- Small group instruction: Some courses at Vineyard are offered in small groups. Students meet with 5-10 other students, once a week, to receive instruction, turn in completed assignments, and receive assignments for the next week.
- Blended Learning: At Vineyard students have the opportunity to complete several courses online. Speak to the Vineyard counselor to learn more about the online option.

## **Will I get a diploma?**

Yes, Vineyard is an accredited high school offering the same diploma as traditional high schools.

## **Can I take courses not offered at Vineyard?**

Concurrent enrollment is when a student takes courses at more than one school within the Livermore Valley Joint Unified School District. For example, a Vineyard student may take 2-3 core courses at Vineyard and enroll in Chemistry 1A at Livermore High School. Students can pick up concurrent enrollment forms at the Vineyard office. The form will need to be completed by a parent/guardian and submitted to the Vineyard administration.

## **Can I graduate early?**

Yes. The graduation requirements for Vineyard are the same as other Livermore schools (240 credits). You have the opportunity to work ahead and you can receive your diploma as soon as these requirements are completed. Early graduates are encouraged to come back and participate in the graduation ceremony in early June.

## **Will I still be able to participate in sports/other activities?**

Yes. You may participate in sports at other LVJUSD schools, but as with concurrent enrollment, restrictions and requirements apply. Please contact the Vineyard office or consult the Vineyard handbook for more information.

## **How is Vineyard different from home school?**

At Vineyard, students have individual teachers, who teach and guide them in their academic progress. Although we encourage parent involvement, unlike home school, parents are not the primary coordinators of their child's coursework.

# Vineyard High School Course Offerings

## ENGLISH

The basic English program covers the broad fields of composition, literature and language, with training in the skills of reading, speaking and writing.

Students are required to take four years (40 units) of English as a high school graduation requirement.

### **English 9A/9B**

*(Online/Blended Learning Option Available)*

**Course Number:** 10010/10020

**Length:** 10 units

**Grade Level:** 9

**College:** UC/CSU “b” English Requirement

**Description:** Students will increase their vocabulary, improve their grammar, and develop their writing skills through practice of paragraph and essay writing. They will study literature, learning how to observe carefully the setting, characters, plot, conflict, and theme of short stories as well as plays and novels.

### **English 10A/10B**

*(Online/Blended Learning Option Available)*

**Course Number:** 10030/10040

**Length:** 10 units

**Grade Level:** 10

**College:** UC/CSU “b” English Requirement

**Description:** This survey course covers reading, writing, and vocabulary development. The literature will include short stories, novels, poetry, and drama. Students will review sentence structure, punctuation, and essay writing. They will practice writing skills in preparation for the California High School Exit Exam, which they must pass in order to graduate with a diploma.

### **English 11A/11B**

*(Online/Blended Learning Option Available)*

**Course Number:** 10050/10060

**Length:** 10 units

**Grade Level:** 11

**College:** UC/CSU “b” English Requirement

**Description:** Students will study American and contemporary literature. They will develop an awareness of the social and historical trends influencing our literature as well as develop an understanding of basic values, attitudes, and beliefs in our literary heritage. They will also continue to improve their writing skills.

### **English 12A/12B**

*(Online/Blended Learning Option Available)*

**Course Number:** 10070/10080

**Length:** 10 units

**Grade Level:** 12

**College:** UC/CSU “b” English Requirement

**Description:** Students will develop the English skills needed to be college and career ready. The focus will be on improving essay and workplace writing skills with the introduction of new and useful vocabulary.

### **Mythology**

**Course Number:** 10143

**Length:** 5 units

**Grade Level:** 12

**College:** UC/CSU “b” English Requirement

**Description:** Students will study Greco-Roman, Norse and Native American mythology and connect these themes to universal and contemporary human experiences. They also will continue to improve their writing skills.

## **Ethnic Literature/Tapestry\***

**Course Number:** 10144

**Length:** 5 Units

**Description:** Students will develop and extend their communication skills and will also enhance their knowledge of American culture by reading a broad selection of poems, short stories and literary works by authors of diverse backgrounds.

## **Exploring Poetry \***

**Course Number:** 10142

**Length:** 5 units

**Grade Level:** 12

**College:** UC/CSU "b" English Requirement

**Description:** Students will read, write, discuss, analyze and memorize poetry. They will be exposed to a wide variety of poetic forms and techniques.

## **Shakespeare**

**Course Number:** 10141

**Length:** 5 units

**Grade Level:** 12

**College:** UC/CSU "b" English Requirement

**Description:** Students will read and study Shakespearean plays and the life and times of Shakespeare himself. A greater appreciation of the literature will be gained by reading Hamlet, Macbeth, Julius Caesar, Taming of the Shrew and A Midsummer Night's Dream.

## **English Electives**

### **Composition 1A/B**

**Course Number:** 10410/10420

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU "b" English Requirement

**Description:** Students will write and edit their compositions and will complete weekly assignments. They will develop and polish their writing skills by writing in a variety of formats.

### **Creative Writing \***

**Course Number:** 10360

**Length:** 5 Units

**Grade Level:** 9-12

**College:** UC/CSU "g" College-Preparatory Elective

**Description:** Students will write and edit a variety of creative writing assignments, such as poetry, monologues and short stories, while using language, grammar, punctuation and spelling correctly.

### **Exploring Literature\***

**Course Number:** 10151

**Length:** 5 units

**Grade Level:** 9-12

**College:** \*Not accepted by UC/CSU to fulfill A-G requirements.

**Description:** Students will develop reading and comprehension skills by reading 1500 pages of teacher-approved book of choice, preparing a daily reading summary and completing a book project or taking a comprehensive test for each book read.



# MATHEMATICS

The Mathematics program offers a standard college preparatory sequence of Algebra 1, Geometry, and Algebra 2.

Most classes are offered with an online version.

Students are required to take 20 units of math, including Algebra 1, as a graduation requirement. Algebra 1 may be taken as a 10 unit (2 classes) or a 20 unit (4 classes) sequence.

## **Algebra A1/A2\***

### **Algebra B1/B2**

**Course Number:** A1/A2: 20033/20034

B1/B2: 20035/20036

**Length:** 4 Semesters: 20 units

**Grade Level:** 9-12

**College:** \*Not accepted by UC/CSU to fulfill A-G requirements.

**Description:** In this **20 unit** (4 semester) course, students will focus on algebra concepts such as solving, graphing and writing linear equations, inequalities, quadratic equations, and polynomials.

## **Algebra IA/IB**

**Course Number:** Intro 20075

IA 20080

IB 20090

**Length:** 3 Semesters: Intro to Algebra 1, Algebra 1A, Algebra 1B – 15 units

**Grade Level:** 9-12

**College:** UC/CSU “c” Mathematics

**Requirement (Intro to Algebra 1 meets Vineyard math elective requirement only)**

**Description:** Students will focus on algebra concepts such as solving, graphing and writing linear equations, inequalities, quadratic equations, and polynomials.

## **Algebra IIA/IIB**

*(Online/Blended Learning Option Only)*

**Course Number:** Intro 20155

IIA 20160

IIB 20170

**Length:** 3 Semesters: Intro to Algebra 2, Algebra 2A, Algebra 2B – 15 units

**Grade Level:** 9-12

**College:** UC/CSU “c” Mathematics

**Requirement (Intro to Algebra 2 meets Vineyard math elective requirement only)**

**Description:** Algebra II is a rigorous course intended for college bound students. This discipline complements and expands the mathematical content of Algebra I and Geometry. Topics include linear, quadratic, logarithmic, exponential and polynomial functions and relations: complex numbers, quadratic equations, linear and quadratic systems, sequences, series, matrices, permutations, combinations, statistics and probability.

## **Geometry A/B**

**Course Number:** Intro 20115

Geometry A 20120

Geometry B 20130

**Length:** Intro to Geometry, Geometry A, Geometry B – 15 units

**Grade Level:** 9-12

**College:** UC/CSU “c” Mathematics

**Requirement (Intro to Geometry meets Vineyard math elective requirement only)**

**Description:** This course is only offered through the ALEKS computer math program.

Geometry introduces geometric reasoning as a method for problem solving. Topics include: angles, triangles, polygons, parallel lines and planes, 31 congruence and similarity, right triangles, circles, coordinate geometry, areas of polygons and circles, surface areas and volumes of solids, transformations, constructions, proofs and right triangle trigonometry. Emphasis is placed on deductive reasoning, logic and problem solving including the writing of proofs.

## **Trigonometry**

**Course Number:** 20180

**Length:** 1 Trimester – 5 Units College:

**College:** UC/CSU “c” Mathematics (pending approval)

**Prerequisite:** Algebra II

**Description:** This course provides study of basic trigonometry before students enroll in Precalculus. The scope of the course will include all elements of the foundational triangle trig functions with an emphasis toward modeling and application. There will be an in-depth study of the unit circle using both radian and degree measurement, which are essential for success in Precalculus and beyond. Graphs of all six trigonometric functions and their inverses will be studied, as well as developing, solving and verifying trigonometric identities. Additionally, a deeper understanding of expanded topics of trig, conic sections, logarithms, exponential functions, and complex numbers will be developed.

## **Precalculus A/B**

**Course Number:** Intro 20195

Precalc A 20196

Precalc B 20197

**Length:** Three-Semesters: Intro to Precalculus, Precalculus A, Precalculus B – 15 units

**Grade Level:** 9-12

**College:** UC/CSU “c” Mathematics

**Requirement** (Intro to Precalculus meets Vineyard math elective requirement only)

**Description:** This course provides a thorough study of the trigonometric functions (inverse and applications), advanced algebraic expressions, equations, inequalities, matrices, conics (with translations), complete analysis of polynomial, rational, logarithmic and exponential functions including graphics calculator applications, vectors, polar coordinates, sequences, series, summation and a brief introduction to complex numbers and limits.

## **Statistics A/B**

*(Online/Blended Learning Option Only)*

**Course Number:** 20255/20256

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU “c” Mathematics

**Requirement**

**Description:** This course is only offered through the ALEKS computer math program and introduces students to the major concepts for collecting and analyzing data, and drawing conclusions. Students will learn to use both graphical analysis and numerical techniques to study univariate and bivariate data, use probabilities, recognize various distributions, and use confidence intervals, z, t, and chi squared tests of significance.

## **Consumer Math 1A/1B**

**Course Number:** 20681/20691

**Length:** 10 credits

**Grade Level:** 9-12

**College:** UC/CSU “g” College-Preparatory Elective

**Description:** This course provides students with a comprehensive overview of practical and applied mathematics. Students will develop the skills to manage their personal finances.

**\*Not accepted by UC/CSU to fulfill A-G requirements.**

## **PHYSICAL EDUCATION**

**The Physical Education Program is offered throughout the four years of high school. Two years (20 units) are required for graduation. A maximum of 20 additional credits may be taken as PE Elective A/B.**

**Note: Students will be required to enroll in Physical Education each year until they pass the California Physical Fitness Test.**

## **Physical Education Electives**

*These courses are intended to supplement the basic PE 1 and PE 2 courses and receive elective credit.*

### **Advanced Sports Activities**

**Course Number: 20815**

**Length: 1 Trimester - 5 units**

**Prerequisite: PE 2A/B**

**Description:** This is an individual and team sports activity-based course designed for students who wish to continue physical education after successfully completing PE 2A/B. This course will add to students' base of knowledge through activities including badminton, volleyball and basketball, and will introduce a wide range of other activities such as archery, gymnastics/tumbling, tennis and golf.

### **PE 1A/1B**

**Course Number: 20810/20820**

**Length: 10 Units**

**Grade Level: 9**

**Description:** Students are encouraged to participate in sports/activities that are of interest to them and to develop a physical fitness routine that will have lifelong benefits. A parent or coach must verify participation hours.

### **PE 2A/2B**

**Course Number: 20830/20840**

**Length: 10 Units**

**Grade Level: 10**

**Description:** Students are encouraged to participate in sports/activities that are of interest to them and to develop a physical fitness routine that will have lifelong benefits. A parent or coach must verify participation hours.

## **Human Performance**

**Course Number**    *Fall:*        **20827**

*Winter:*    **20828**

*Spring:*    **20829**

**Length:** **1 Trimester - 5 Units (may be repeated for credit)**

**Grade Level:** **10 - 12**

**Prerequisite:** **On a GHS athletic team or teacher consent**

**Description:** This class is designed to provide an opportunity during the school day for athletes to participate in a structured strength and athletic enhancement program. This class is geared toward the student who shows an above average interest and ability in physical education through participation on an athletic team.

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## SCIENCE

Vineyard's core science program is based on the Next Generation Science Standards' Three Course Model of 1. Conceptual Physics, 2. Biology, and 3. Chemistry. Each of these courses is built with Universal Design for Learning and offers students multiple ways to demonstrate their understanding.

While only one year of life science and one year of physical science are graduation requirements for LVJUSD, most 4-year colleges recommend at least three years of lab science.

It is our hope that students will take all three of the core science classes and then continue on with electives such as Innovations in Green Technology, Field Biology, and AP Environmental Science

Vineyard science courses invite students to take a deeper dive into the questions that interest them most.

### **Field Biology 1A/B**

**Course Number:** 30210/30220

**Length:** 10 Units

**Grade Level:** 10-12

**College:** UC/CSU "d" Lab Science Requirement

**Prerequisite:** Completion of, or concurrent enrollment in Algebra 1A/B. "C" or better in Biology 1A/B.

**Description:** Field Biology provides students with an opportunity to study the native animals and plants of California. Students use keys to identify land mammals, birds, insects, and native trees and shrubs. Principles of ecology and conservation are emphasized.

### **Life Science 1A/1B\***

*(Online/Blended Learning Option Available)*

**Course Number:** 30030/30040

**Length:** 10 Units

**Grade Level:** 9-12

**College:** \*Not accepted by UC/CSU to fulfill A-G requirements.

**Description:** In this survey course, students will focus on biological principles such as the cell, metabolism, genetics, ecology and plant, animal and human body systems.

## Life Science

### **Biology 1A/1B**

*(Blended Learning Option Available)*

**Course Number:** 30070/30080

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU "d" Lab Science Requirement

**Description:** Biology is a Life Science course designed for all students. Students will have the opportunity to demonstrate their understanding of key concepts in a variety of ways. Key Biology concepts include Ecosystems, Photosynthesis, Respiration, Evolution, Genetics, Structure and Function.

## **Physical Science**

### **Conceptual Physics 1A/1B**

**Course Number:** 30130/30140

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU “d” Lab Science Requirement

**Description:** Conceptual Physics is an activity-oriented Physical Science course. “Conceptual” means that we will focus more on the ideas of physics than the complex math equations in physics. Students will probably find a new appreciation for math, however, as they see Algebra I topics coming to life in this course. Key Conceptual Physics concepts include motion, energy, momentum, waves, stars and the universe.

### **Chemistry 1A/1B (P)**

**Course Number:** 30150/30160

**Length:** 10 Units

**Grade Level:** 10-12

**College:** UC/CSU “d” Lab Science Requirement

**Prerequisite:** “C” or better in Algebra I or Teacher’s approval

**Description:** Chemistry is a Physical Science course designed for all students. Students will have the opportunity to demonstrate their understanding of key concepts in a variety of ways. Key Chemistry concepts include Combustion, Energy, Atoms, Elements, and Molecules, Chemical Reactions, Climate Change, and Ocean Acidification.

### **Environmental Science A/B and Seminar (AP) (P)**

**Course Number:** 30511/30521/30522

**Length:** 15 units (including seminar)

**Grade Level:** 11-12

**College:** UC/CSU “d” Lab Science Requirement

**Prerequisite:** Algebra I; “C” or better in two prior lab courses, one biological and one physical, recommended

**Description:** In AP Environmental Science, students will explore interrelationships in the natural world, identify and analyze environmental problems both natural and human-made, evaluate the relative risks

associated with these problems, and examine solutions for resolving or preventing them. Students learn to incorporate academic rigor with practical application by exploring the links between environment, politics and economics. This course is designed to provide students with an academic experience parallel to that of the college-level, while promoting critical thinking skills involved in independent research studies.

### **Earth Science 1A/1B**

***(Online/Blended Learning Option Available)***

**Course Number:** 30010/30020

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU “g” College-Preparatory Elective

**Description:** Earth Science emphasizes astronomy and some of the early discoveries about the Earth’s place in the cosmos. The geologic and biological history of the Earth and the known history of the universe will be emphasized. Also covered are the Earth’s meteorology, climate, geology and geological processes. Lab work is required.

### **Innovations in Green Technology A/B**

**Course Number:** 30525/30526

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU “d” Lab Science-Board and UC/CSU approval pending

**Description:** Innovations in Green Technology is a Career and Technical Education course in the Energy, Environment, and Utilities Pathway. In this course, students will gain energy and sustainability career awareness. Students will also develop technical and professional skills for energy and sustainability careers. The course themes are: “*High-functioning energy systems are essential to economic, social, and environmental quality of life.*” And “*Sustainability challenges create opportunities for future careers.*” Lab work is required.

## **Health**

### **Integrated Science 1 A/1B\***

*(Online/Blended Learning Option Available)*

**Course Number:** 30230/30240

**Length:** 10 Units

**Grade Level:** 9-12

**College:** \*Not accepted by UC/CSU to fulfill A-G requirements.

**Description:** Integrated Science 1A/1B combines selected topics in physical science to study aspects of Earth. The course concepts are taught from the following topics: Nature of science, chemistry, astronomy, climate science, meteorology, geology and oceanography. Physical science credit will be earned.

### **Health**

*(Online/Blended Learning Option Available)*

**Course Number:** 30000

**Length:** 5 Units

**Grade Level:** 9-10

**College:** UC/CSU "g" College-Preparatory Elective

**Description:** Students will study aspects of health including physical, mental and social factors. Topics include personal health, consumer and community health, injury prevention and safety, alcohol, tobacco and other drugs, nutrition, environmental health, family living, individual growth and development, and communicable and chronic diseases. There is a focus on learning the role students can play in maintaining their own health and well-being through deliberate behaviors and choices.

### **Relationships/Human Development\***

**Course Number:** 66050

**Length:** 5 Units

**Grade Level:** 11-12

**Description:** Human Development is a course that explores how and why people grow and learn, while introducing theories of development. Students will examine stages of growth and development focusing on prenatal, infancy, toddlerhood, adolescence, and early adulthood. The class addresses dating, marriage, and parenting. Participants will practice parenting skills by caring for a computerized baby. Careers relevant to the field of Human Development will be introduced, and employability skills will be applied through a variety of activities. To continue a career path, see ROP Developmental Psychology of Children.

## **SOCIAL SCIENCE**

The Social Science Program includes courses that are designed to contribute directly to the development of good citizenship and to an understanding of how historical events shape the world of today and the future.

Students must complete 35 units (7 semesters) of social science as a graduation requirement. The required courses are:

9<sup>th</sup> grade:

Social Science (1 semester)

10<sup>th</sup> grade:

World History (2 semesters)

11<sup>th</sup> grade:

U.S. History (2 semesters)

12<sup>th</sup> grade:

Civics (1 semester)

Economics (1 semester)

### **Social Science 9A (World Geography)** *(Online/Blended Learning Option Available)*

**Course Number:** 15010

**Length:** 5 units

**Grade Level:** 9

**College:** UC/CSU "a" History/Social Science Requirement

**Description:** This survey course provides a foundation for the study of the physical, economic, political and cultural characteristics of areas of the world. This course also provides students with the opportunity to explore human behavior through the study of the individual, groups and cultures.

### **World History 10A/10B**

*(Online/Blended Learning Option Available)*

**Course Number:** 15030/15040

**Length:** 10 units

**Grade Level:** 10

**College:** UC/CSU "a" History/Social Science Requirement

**Description:** Students will trace the rise of democratic ideas and the historical roots of current world issues as they relate to international relations. Emphasis is placed on western civilizations as the source of American political institutions, laws, and ideology.

### **U.S. History 11A/11B**

*(Online/Blended Learning Option Available)*

**Course Number:** 15050/15060

**Length:** 10 units

**Grade Level:** 11

**College:** UC/CSU "a" History/Social Science Requirement

**Description:** Students will study the major turning points in American history in the 20th century. Topics include technology and a corporate economy, the change in the ethnic composition of American society, the movement toward equal rights, the role of the United States as a major world power, the expanding role of the federal government and federal courts, and the historical tension between the rights of the individual and the State.

### **Civics**

*(Online/Blended Learning Option Available)*

**Course Number:** 15070

**Length:** 5 units

**Grade Level:** 12

**College:** UC/CSU "a" History/Social Science Requirement

**Description:** Students will pursue a deeper understanding of the institutions of American democracy. They will 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 government.



## **Economics**

*(Online/Blended Learning Option Available)*

**Course Number:** 15080

**Length:** 5 units

**Grade Level:** 12

**College:** UC/CSU “g” College-Preparatory  
Elective

**Description:** Students will master fundamental economic concepts, applying the tools (graphs, statistics, and equations) from other subject areas to the understanding of operations and institutions of economic systems. Students will analyze the elements of the United States market economy in a global setting, the influence of the U.S. government on the American economy, and the role of the United States labor market.

## **Social Science Electives**

### **Psychology 1A/1B**

*(Online/Blended Learning Option Available)*

**Course Number:** 15240/15250

**Length:** 10 units

**Grade Level:** 10-12

**College:** UC/CSU “g” College-Preparatory  
Elective

**Description:** Students will examine emotional development, states of consciousness, attitudes, life cycles, as well as abnormal psychology. The course emphasizes identifying factors that influence human behavior so that individuals can better understand their own behavior and the behavior of others.

### **Positive Psychology**

**Course Number:** 15235

**Length:** 5 units

**Grade Level:** 10-12

**College:** UC/CSU “g” College-Preparatory  
Elective

**Description:** Students will engage in an analysis of the concepts and science of happiness research and apply proven practices to their own lives through a series exercises, and keep a reflection journal to record their own reactions and those of the people with whom they interact in order to track any change or growth that may occur. A final exam will test the knowledge of the

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concepts covered in the course.

## **Introduction to Sociology**

*(Online/Blended Learning Option Only)*

**Course Number:** 15450

**Length:** 5 units

**Grade Level:** 11-12

**College:** UC/CSU “g” College-Preparatory  
Elective

**Description:** This course focuses on the systematic understanding of social interaction, social organization, social institutions, and social change. The two major theories in sociology examined throughout this course include social organization and social change and disorganization. Theories are examined in differences, relationships, and movement. Students will study theories of race and ethnicity, social and cultural expectations, class, families, education, and crime.

## **VISUAL AND PERFORMING** **ARTS**

### **Art 1/2**

**Course Number:** 60030/60040

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU "f" Visual & Performing Arts Requirement

**Description:** Students will explore the basic elements of art by studying examples and completing a variety of multimedia projects to expand their familiarity with the visual arts.

### **Digital Photography 1**

**Course Number:** 60270

**Length:** 5 Units

**Grade level:** 9-12

**College:** UC/CSU "f" Visual & Performing Arts Requirement when taken with Digital Photo 2

**Description:** This rigorous course in digital photography will begin with an introduction/review of the elements and principles of art needed for creating photographs, including basic layout and design, color theory, shape, form and composition. This course will familiarize the student with digital photographic equipment, materials and methods through theory and hands-on practice. Students will use software to manipulate photographs in creative manners not possible with traditional photography. Students will also learn about the history of photography and photographers.

## **WORLD LANGUAGE**

### **Spanish IA/IB**

***(Blended Learning)***

**Course Number:** 40210/40220

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU "e" Language other than English Requirement

**Description:** Spanish Level I introduces fundamentals of the Spanish language receptive skills of listening and reading comprehension, and the productive skills of speaking and writing. Students will advance from beginner to novice, using three modes of communications: interpersonal, analytical, and presentational. They will learn about various Hispanic cultures and will compare and contrast the language and culture with their own.

### **Spanish IIA/IIB**

***(Blended Learning)***

**Course Number:** 40230/40240

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU "e" Language other than English Requirement

**Prerequisite:** "C" or better in Spanish IB strongly recommended

**Description:** Spanish level II expands the first-year knowledge of the Spanish language receptive skills of listening and reading comprehension, and the productive skills of speaking and writing, with increasingly complex concepts in language. Students will advance from novice to intermediate, emphasizing the three modes of communication: interpersonal, analytical, and presentational. They will continue to compare and contrast Hispanic culture and language with their own.

## **CAREER AND TECHNICAL EDUCATION**

### **Business Finance A/B**

**(Online/Blended Learning Option Only)**

**Course Number:** 20240

**Length:** 5 units

**Grade Level:** 9-12

**College:** UC/CSU “g” College-Preparatory Elective

**Prerequisite:** “C” or better in Algebra I or Teacher’s approval

**Description:** Business Finance is a one-year course through which students will learn a set of sequential steps in the understanding of Business Finance. Students will develop an understanding of business, finance, management, and marketing while applying the mathematical knowledge necessary for success in those fields. Students will also use the business principles of revenue, cost, and profit, as well as, personal finance concepts in context for learning real-world mathematical content.

### **Business Computer Applications A/B\***

**(Online/Blended Learning Option Only)**

**Course Number:** 46055/46056

**Length:** 10 units

**Grade Level:** 9-12

**Prerequisite:** “C” or better in Algebra I or Teacher’s approval

**College:** \*Not accepted by UC/CSU to fulfill A-G requirements.

**Description:** Computer applications is an elective course that introduces students to computer operations, keyboarding, and productivity software. Students will learn the fundamentals of touch-typing on computers with emphasis on keyboard mastery. Students will explore the use of word processing, spreadsheet, and presentation software to create a variety of business documents.

### **Intro to Business A/B**

**(Online/Blended Learning Option Only)**

**Course Number:** 46045/46046

**Length:** 10 units

**Grade Level:** 9-12

**College:** UC/CSU “g” College-Preparatory Elective

**Description:** Introduction to Business is a two-semester elective course that introduces students to the world of business, with an emphasis on global business. Students will receive an introduction to the business world, explore the foundations of business operations, and gain the knowledge and skills required for success in today’s marketplace. Marketing, economics, promotion, finance, e-commerce, and entrepreneurship will be explored.

### **Introduction to Computer Programming (Coding)\***

**(Online/Blended Learning Option Only)**

**Course Number:** 44100

**Length:** 5 units

**Grade Level:** 9-12

**College:** \*Not accepted by UC/CSU to fulfill A-G requirements.

**Description:** Introduction to Computer Programming covers a basic introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks in the Python programming language as they write and test their own code using the approaches real programmers use in the field. Students will program with variables, functions and arguments, and lists and loops, providing a solid foundation for more advanced study as well as practical skills they can use immediately.

## **Computer Programming Principles A/B (AP)**

**Course Number:** 47078/47079

**Length:** 10 units

**Grade Level:** 10-12

**College:** *Pending* UC/CSU “g” College-  
Preparatory Elective

**Prerequisite:** “C” or better in Introduction to  
Computer Programming or Exploring  
Computer Science or teacher’s approval

**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 also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. This course covers the standards assessed and the requirements for the AP digital portfolio for the AP Computer Science Principles test.

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## **Keyboarding and Microsoft Word**

**Course Number:** 45055

**Length:** 10 units

**Grade Level:** 9-12

**College:** \*Not accepted by UC/CSU to fulfill A-G requirements.

**Description:** This course will teach students proper touch keyboarding for efficient typing techniques with accuracy and speed. It will also instruct students how to use Microsoft Word for effective communication through the use of tools and formatting practices. These skills will be useful in any direction students pursue in college or the business world.

## **NON-DEPARTMENTAL ELECTIVES**

### **Academic Preparation Period**

**Course Number:** 88601

**Length:** 5 Units

**Grade level:** 9-12

**Description:** Designed for students with full schedules and a desire to utilize their time at school, Academic Prep provides a daily period for students to complete assignments, get additional help, work collaboratively and utilize the school information systems. Students must be enrolled in a full schedule of classes during the trimester they take Academic Prep and will be given a pass/fail grade.

### **Freshmen in Transition (F.I.T.)**

**Course Number:** 80009

**Length:** 5 Units

**Grade level:** 9

**Description:** Freshmen in Transition (F.I.T.) is a cross-curricular course designed to bridge the transition to high school by providing students with academic and social/emotional support. Students will learn organizational, note taking and study skills; technology etiquette and computer basics; character development; and Vineyard High School ethics and expectations. Upon completion of F.I.T., freshmen will understand the demands of high school and be prepared to succeed through their four years at VHS. Students will also complete a four-year academic and career success plan.

### **Office Assistant**

**Course Number:** 86118

**Length:** 5 units

**Grade Level:** 11-12

**GRADING POLICY:** This course earns elective credit and will be graded as Pass/Fail

**Prerequisite:** Teacher or Staff approval

**Description:** Students will have an opportunity to obtain experience in various phases of school office operation. Students will gain clerical and other types of office experience. Students must

uphold confidentiality, be personable, reliable, motivated, and able to work independently. Hours will be verified with 90 hours equaling 5 credits.

### **Teacher Assistant**

**Course Number:** 86300

**Length:** 5 units

**Grade Level:** 11-12

**GRADING POLICY:** This course earns elective credit and will be graded as Pass/Fail

**Prerequisite:** Teacher or Staff approval

**Description:** This program is designed to give students the opportunity to obtain experience in various phases on classroom operations. The student may request placement with any instructor. Students gain clerical and other types of office experience. Students will acquire the skills to successfully take the Microsoft Office specialist exams.

### **Community Service\***

**Course Number:** 84095

**Grade Level:** 11-12

**Length:** 5 units

**Prerequisite:** Students must provide their own transportation. Walking is also permitted.

**Course Description:** Students work at a local elementary/middle school or nonprofit agency of their own choice within the community. Students are expected to work at least 5 hours every 2 weeks during their assigned period. Course Requirements: Parents need to sign a permission form to permit their student to be off campus. A maximum of 20 units may be earned toward graduation.

**\*Students will receive a letter grade for this class.**

## **Work Experience Education 1/2/3/4**

### **Course Number:**

**85121/85131/85141/85151**

### **Length: 10 units**

### **Grade Level: 9-12**

**Description:** Students can earn course credit through their paid employment. All work hours will be verified by the work supervisor. The maximum number of credits a student can receive is 20 credits in one school year. The maximum number of total credits that can be earned is 40. In order to receive the full credits, students must attend all of the classes, be on time, and participate, as well as turn in verification of their work hours. This is a semester class, 10 credits can be earned, and students must commit to the semester - 18 weeks.

## **Leadership 1/2/3**

### **Course Number: 81000/81010/81020**

### **Length: 5 Units**

### **Grade Level: 9-12**

### **Prerequisite: Teacher consent**

**Description:** The leadership class is a peer program in which students are trained in communication and interpersonal skills. It is designed to teach them how to be facilitators in such roles as a teacher/counselor assistant, special friend, and small group leader. Students will learn about helping relationships, decision making and problem-solving. They will learn how to facilitate others to think about ideas, feelings, and responsible behaviors. They will also study prevention education topics related to school and community projects. Training for students will be provided through this regular course. Students must be approved for admission to the class, have parent permission, and return all written forms before they are officially registered in the class.

## **REGIONAL OCCUPATIONAL PROGRAM**

The Tri-Valley Regional Occupational Program (ROP) offers classes to high school juniors and seniors that develop skills necessary for employment. ROP courses earn credit in the same manner as other high school elective courses. All ROP courses are located off-campus at other school or community sites and will require travel and schedule coordination.

Courses are offered in the following areas:

- Arts, Media and Entertainment
- Child and Family Development
- Cosmetology
- Energy and Utilities
- Finance, Business and Marketing
- Health Science/Medical Technology
- Information Technology
- Public Services
- Transportation Technology

Students should ask their teachers for more specific information. These courses are very popular and registration should be made early.

## **MIDDLE COLLEGE**

Middle College is an alternative education collaboration between the Tri-Valley Regional Occupational Program and Las Positas College. Middle College provides a supportive, academically rigorous environment for self-directed learners looking for a non-traditional collegiate pathway. Middle College gives students an opportunity to achieve high school and college academic success, to explore and pursue vocational and career aspirations, and to prepare themselves for future college experiences in a supportive, academically-challenging environment. Working in collaboration with Las Positas College, Middle College students pursue post-secondary goals through a highly engaging instructional program that is based on critical thinking, collaboration, and effective communication.

Middle College at Las Positas College is a unique collaboration between:

- Las Positas College
- Tri-Valley Regional Occupational Program
- Dublin Unified School District
- Livermore Valley Joint Unified School District
- Pleasanton Unified School District