

# Table of Contents

Graduation Requirement	04	Physical Education Department	26
4-Y College Bound Requirements	05	Science Department	27
QHHS Programs	06	Social Sciences Department	30
Application Required Electives	10	Visual/Performing Arts Department	33
Behavioral Science Department	12	Appendix	43
English Department	13	IB Possible Sequencing	44
Foreign Language Department	18	Math Sequencing	45
Industrial Technology Department	21	AAV/CTE Courses	49
Mathematics Department	23		

# Courses on the Hill

## Application Required Electives\*

AVID 1, 2, 3, & 4 Senior Seminar  
Community Based Instruction - VT  
Journalism Honors  
Mobility Transportation  
Practical Living Skills  
Strategies for Success 9, 10, 11 & 12  
Student Gov't & Leadership  
General Work Experience  
Advanced Journalism (Yearbook)  
Youth Employment Skills 1A & 1B

## Behavioral Science Department

ESS Healthful Living\*  
Healthful Living  
Psychology & Psychology AP or IB SL  
Sociology

## English Department

English 9, 9 Honors, 10, 10 Honors, & 11  
English 12 / Bible & Literature  
English 12 / Expository Writing  
English 12 / Film & Literature  
English 12 / Science Fiction  
English IB HL1 & HL2  
English Language & Composition AP  
English Literature & Composition AP  
ESS English\* 9, 10, 11 & 12  
ESS Lit Support\* 1 or 2  
Functional Academics - ELA\*  
Literacy Support  
Creative Writing  
Speech

## Foreign Language Department

French 1, 2, 3, IB SL  
French Honors 1, 2, 3  
Spanish 1, 2, 3, AP or IB SL  
Spanish Honors 1, 2, 3  
Spanish Literature & Culture AP

## Industrial Technology Department

Aerospace Engineering Honors  
Digital Electronics  
AVC Introduction to Engineering Design

## Honors

AVC Principles of Engineering Honors  
Intro to Film & Video Theory  
Digital Video Production & Broadcasting  
Advanced Art of TV & Video Production  
Computer Science Principles AP  
AP Computer Science A

## Mathematics Department

Algebra 1  
Algebra 2  
Algebra 2/Trigonometry Honors  
Calculus AB AP & BC AP  
Geometry  
ESS Algebra 1A & 1B\*  
ESS Mathematics\*  
ESS Pre-Algebra\*  
Functional Academics - Math\*  
Mathematics IB SL  
Statistics AP  
Trigonometry/Pre-Calculus

## Physical Education Department

Physical Education (P.E.) 1, 2  
P.E. 3 Dance  
P.E. 3 Weightlifting

## Science Department

Anatomy/Physiology  
Biology or Biology Honors  
Biology AP  
Biology IB HL1 & HL2  
Chemistry, AP Honors  
Culinary Chemistry  
Earth Science  
Environmental Science AP  
ESS Earth Science\*  
ESS Life Science\*  
Forensic Biology  
Marine Biology  
Physics & Physics AP

## Social Studies Department

American Gov't & Pol AP (1-Sem Course)  
Civics (1-Semester Course)  
Economics (1-Semester Course)

## Economics Honors (1-Sem Course)

ESS Civics\* (1-Sem Course)  
ESS Economics\* (1-Sem Course)  
ESS U.S. History\*  
ESS World History\*  
European History AP  
History of America IB HL1 & HL2  
Human Geography AP  
Sociology  
Theory of Knowledge IB  
United States History or US History AP  
World History or World History Honors  
World History AP

## Visual & Performing Arts

A Capella Choir\*  
Art 1, 2  
Art History AP  
Ceramics 1, 2  
Chamber Singers\*  
Choral Ensemble/Vocal Jazz  
Concert Band  
Dance Fine Art  
Drama 1, 2, 3, 4  
Drawing 1, 2  
Jazz Ensemble\*  
Marching Band  
Mixed Chorus  
Multimedia Contemporary Design 1  
Multimedia Contemporary Design 2  
Music Appreciation  
Percussion  
Painting 1, 2  
Sculpture  
Show Corps\*  
String Orchestra  
Studio Art 2-D Design AP  
Studio Art 3-D Design AP  
Studio Art Drawing AP  
Symphonic Band  
Theatre Production  
Visual Arts IB HL1 & HL2

# CIM Student Goals

Each year at the beginning of the second semester, students select courses for the following year. Students' selections should be based on graduation and/or college entrance requirements, and on your own special needs and interests. During the class that Counselors will meet with students, students should be prepared to discuss the courses needed to complete next year's program and to develop a general plan for the remaining years in high school to meet their individual career or college goals.

**In order to do this successfully, students need to:**

**Know** the requirements for graduation and for college preparation.

**Know** the expectations and requirements for career goals.

**Discuss** career and college goals with parents.

**Complete** the course selection sheet provided by the guidance office, including student and parent signatures, while keeping in mind the college major or career choice being considered. If needed, students should visit the College and Career Center to explore courses in subjects that interest them as well as possible careers.

**Circle** a required course within each core academic subject area.

9<sup>th</sup> grader required academic courses include an English, Behavioral Science, Mathematics, Science, and a Physical Education class plus one elective course.

10<sup>th</sup> grader required academic courses include an English, Social Science, Mathematics, Science, and a Physical Education class plus one elective course.

11<sup>th</sup> grader required academic courses include an English, Social Science, Mathematics class plus three elective courses.

12<sup>th</sup> grader required academic courses include an English and Social Science class plus three or four elective courses.

**Circle** additional elective courses so that there are a minimum of nine courses circled.

9<sup>th</sup> and 10<sup>th</sup> graders will circle a minimum of four elective courses.

11<sup>th</sup> graders will circle a minimum of six elective courses. If a previous academic requirement has not been met, students should include that course now as one of their electives.

12<sup>th</sup> graders will circle a minimum of six elective courses. If a previous academic requirement still has not been met, students must include that course now as one of their electives.

**Bring** the completed Course Selection Sheet to the meeting with the counselors.

## Things to Remember when Completing the Course Selection Sheet

For each course completed successfully, students receive credit towards the requirements for graduation. A course which is conducted over the entire school year provides ten credits, five credits per semester. Our district requires 230 credits in order to graduate. Students should read the section *Graduation Requirements* in this guide to understand the number of credits needed for graduation.

The following courses are the only semester courses offered at QHHS; Civics, ESS Civics,

Government & Politics United States AP, Economics, Economics Honors, and ESS Economics. With the exception of the identified semester classes, all of the rest of the courses at Quartz Hill High School are year-long courses which means that students are expected to remain in their chosen classes for the entire year, student should not be requesting a change at the semester. When signing up for a class, students have made a **commitment** to take that class and should remain in that class regardless of class rigor or student difficulties in achieving a passing grade. In order to meet the rigor of a course and to earn a passing grade, students should speak frequently with their teachers regarding their progress, use all available resources such as Teacher-Led Tutoring and Academic Survival Skill Workshops on campus, as well as online tutoring offered on the internet. Because of their commitment to a class, students need to learn how to adjust their habits and practices in the face of a challenge, strengthening their coping skills and building **character**; facing a difficult task head on rather than quitting.

## Course Information

This course description book contains information about every course offered to students at Quartz Hill High School. In addition to a brief description of the course, other important information is provided about each course to help you plan your high school curriculum. This section explains the additional information you will see for each course.

**Lab Fee:** If a fee is required materials for a particular course, the fee amount will be listed. If a student is unable to pay a lab fee, they can still enroll in the class however they may be using a different material or have a different assignment than the other students in the class.

**Open to Grade:** Some courses are restricted by grade level. For example, *Biology AP* is offered to students in Grades 11 and 12 only. Be sure you meet the grade requirement before selecting the course.

**Minimum Prerequisites:** A prerequisite is something that must be completed before enrollment in the currently desired course. A minimum prerequisite may be a minimum cumulative grade point average requirement (i.e., 2.5), an application, interview or try-out process, by placement in a course through an Individual Education Plan team meeting, or successful completion of another course (i.e., C grade or higher). If the minimum prerequisite is a grade, the lowest acceptable grade will be listed which is typically a C grade, however there are some higher level classes where a B is required.

**Antelope Valley College (AVC) Articulation:** This will be listed if the course is approved to receive two elective college credits at AVC after the completion of the course with the grade of C or better and after one successful completion of a semester at AVC. After the end of a student's first semester at AVC, the classes completed at QHHS will then be added to the student's official AVC transcript.

**UC A-G Certification:** This will be listed if the course is certified as meeting one of the University of California's (UC) "a-g" subject requirements for freshman admission to the University of California. When listed, students must earn a C grade or better in order for the course to meet the UC a-g requirement.

Subject requirement categories include:

### **"a" - History / Social Science - 2 years required**

Two years of history/social science, including one year of World History, Cultures or Geography; and one year of US History or one-half year of US History and one-half year of American Government/Civics.

### **"b" - English - 4 years required**

Four years of college preparatory English. Students may only use 1 year of ESL/ELD English.

**"c" - Mathematics - 3 years required, 4 years recommended**

Three years of college preparatory mathematics that includes the topics covered in Elementary Algebra/Algebra 1, Geometry and Advanced Algebra/Algebra 2. Approved Integrated Math courses may be used to fulfill part or all of this requirement.

**"d" - Laboratory Science - 2 years required, 3 years recommended**

Two years of laboratory science, including two of the three fundamental disciplines of Biology, Chemistry and Physics. This requirement can also be met by completing the latter two years of a 3-year Integrated Science program.

**"e" - Language Other than English - 2 years required, 3 years recommended**

Two years of the same language other than English.

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

**"g" - Elective - 1 year required**

One year (two semesters) of an approved "g" course, in addition to those required in "a-f" above.

# COMMITMENT

people

Character and Commitment are the cornerstone qualities of that we look up to in our lives.

What are the definitions of Character and Commitment?

Main Entry: **com·mit·ment**

Pronunciation: \kə-ˈmit-mənt\

Function: *noun*

Date: 1603

**2 a :** an agreement or pledge to do something in the future; *especially* : an engagement to assume a financial obligation at a future date **b :** something pledged **c :** the state or an instance of being obligated or emotionally impelled <a commitment to a cause>

Main Entry: **ˈchar·ac·ter**

Pronunciation: \ˈker-ik-tər, ˈka-rik-\

Function: *noun*

Etymology: Middle English *character*, from Latin *character* mark, distinctive quality, from Greek *charaktēr*, from *charassein* to scratch, engrave; perhaps akin to Lithuanian *žerti* to scratch

Date: 14th century

**2 a :** one of the attributes or features that make up and distinguish an individual person, **c :** the complex of mental and ethical traits marking and often individualizing a group, or nation <the character of the American people>

What does Character and Commitment mean to you?

Hopefully, it means that you will try to be the kind of person that you wish you could be, and, that you would like to be a person that others look up to.



Say what you mean, and mean what you say.

Remember, you can always be a better person today than the one you were yesterday.

Think before making a commitment carefully but once made, keep to it.

Winners give their best effort even at their worst moment.

# GRADUATION REQUIREMENTS

The minimum requirements for graduation from high school as adopted by the Board of Trustees of the Antelope Valley Union High School District are as follows:

## REQUIRED SUBJECTS

English 9, 10, 11, 12		
	40 Credits / 4 years	
Mathematics (must include Algebra 1 or higher)		
	30 Credits / 3 years	
Science (Physical & Life Science required)		
	20 Credits / 2 years	
Social Science		
	30 Credits / 3 years	
Including: World History		
grade / 10 credits / 1 year		10 <sup>th</sup>
United States		History
11 <sup>th</sup> grade / 10 credits / 1 year		
Civics/Economics		
12 <sup>th</sup> grade / 10 credits / 1 year		
Visual and Performing Arts or Foreign Language		10 Credits / 1 year
Healthful Living		10 Credits / 1 year
Physical Education (required for 9th and 10th grades)		20 Credits / 2 years
Electives		<u>70 Credits / 4 years</u>
<b>TOTAL UNITS OF CREDIT REQUIRED FOR GRADUATION:</b>		<b>230 UNITS MINIMUM</b>



## MINIMUM PROFICIENCY STANDARDS

- In accordance with California Education Code, students must pass Algebra 1 or a higher level math class in order to receive a high school diploma.
- All students must demonstrate proficiency in 5 out of 6 areas of physical fitness criteria as tested by the California Physical Fitness Test (Fitness Gram). Students will be given the opportunity to pass the test during Physical Education (P.E.) in 9<sup>th</sup> and 10<sup>th</sup> grade. If a student does not demonstrate mastery by the end of 10<sup>th</sup> grade, it is strongly advised that the student continue to enroll in a P.E. 3 course during their third and fourth year of high school until they pass the test.

## CLASSROOM CITIZENSHIP REQUIREMENTS

To be eligible for participation in extra/co-curricular activities/ interscholastic competition and ultimately, the graduation ceremony and senior activities such as Grad Night and Prom, each student shall maintain a positive record of citizenship. If a student receives more than three "U" grades

he/she shall be ineligible for school activities for the quarter following that grading period. There will be no makeup for the "U" in citizenship.

A senior must meet citizenship eligibility requirements in the final two quarters of their senior year in order to participate in graduation ceremonies. Administration reserves the right to deny participation in graduation ceremonies, per board policy, to students with significant discipline concerns.

### ATHLETICS/ACTIVITIES ELIGIBILITY

Student must have at least a "C" Grade Point Average (2.0 GPA) as of the last quarter report.

Student must have a satisfactory citizenship grade (no more than two "U" grades) in a grading period.

### CLASS VALEDICTORIANS

The scholastic requirement for selection of valedictorians is based upon the District grade point average calculation on a 4.0 grading scale with a bonus factor for Honors, Advanced Placement, and International Baccalaureate classes. Valedictorian candidates shall have a minimum 4.0 GPA, no grade lower than C, and all grades on the transcript shall be used except those in non-academic courses, such as physical education/PE drill, student aide and all related types of positions, work experience, and special education. The first seven semesters are used in calculating the GPA and only students with transfer grades from another high school that is accredited will be recognized.

## GRADUATION REQ. for 4-YEAR COLLEGE-BOUND STUDENTS

In order to be eligible to apply for general admission to a 4-year college, the minimum requirements for graduation from high school are listed below and there can be no grade lower than a C:

### REQUIRED SUBJECTS - all must be included on the

approved UC A-G

#### Subject list

English 9, 10, 11, 12

40 Credits / 4 years

Mathematics (must include 3 years of higher level

30 Credits / 3 years

Science (Biology & Chemistry required)

20 Credits / 2 years

Social Science

20 Credits / 2 years

Including: World History

10<sup>th</sup> grade / 10 credits / 1 year

United States History

11<sup>th</sup> grade / 10 credits / 1 year

Visual and Performing Arts

10 Credits / 1 year

Foreign Language (both years must be the same language)

20 Credits / 2 years

Electives

10 Credits / 1 year

Please note that while these are the minimum subject required, some Private Schools, CSU's and all UC's recommend additional years to be completed for student to be considered competitive in the admissions pool. As always, students must earn a total of 230 credits in order to graduate.



math)

### University of California A-G Subject Requirements

#### A- History/Social Science - 2 years required

Two years of history/social science, including one year of World History, Cultures and Geography; and one year of U.S. History or one-half year of U.S. History and one-half year of Civics or American Government.

#### B- English - 4 years required

Four years of college-preparatory English that include frequent and regular writing, and reading of classic and modern literature. Not more than two semesters of ninth-grade English or no more than one year of ESL-type courses can be used to meet this requirement.

**C- Mathematics - 3 years required, 4 years recommended**

Three years of college-preparatory mathematics which include the topics covered in Elementary and Advanced Algebra and two- and three-dimensional Geometry. Approved Integrated Math courses may be used to fulfill part or all of these requirements, as may math courses taken in the seventh and eighth grades that your high school accepts as equivalent to its own math courses.

**D- Laboratory Science - 2 years required, 3 years recommended**

Two years of laboratory science providing fundamental knowledge in two of these three core disciplines: Biology (which includes Anatomy, Physiology, Marine Biology, etc.), Chemistry and Physics. The final two years of an approved three-year integrated science program may be used to fulfill this requirement. Not more than one year of ninth-grade laboratory science can be used to meet this requirement.

**E- Language Other than English - 2 years required, 3 years recommended**

Two years of the same language other than English. Courses should emphasize speaking and understanding, and include instruction in grammar, vocabulary, reading, composition and culture. Courses in a language other than English taken in the seventh and eighth grades may be used to fulfill part of this requirement if your high school accepts them as equivalent to its own courses.

**F- Visual and Performing Arts (VPA) - 1 year required**

Two semesters of approved arts courses from a single VPA discipline: Dance, Drama/Theater, Music or Visual Art.

**G- College Preparatory Electives - 1 year required**

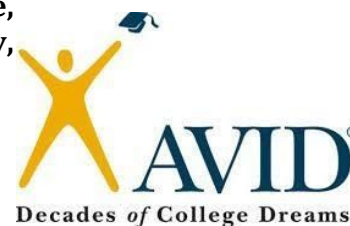
One year (two semesters), in addition to those required in "a-f" above, chosen from the following areas: Visual and Performing Arts (non-introductory level courses), History, Social Science, English, Advanced Mathematics, Laboratory Science and language other than English (a third year in the language used for the "e" requirement or two years of another language).

# Quartz Hill Programs

## Advanced Placement (AP)

Students at Quartz Hill High School are encouraged to take the most rigorous coursework possible in order to provide them with an enriching educational experience that affords them the academic preparation necessary to ready themselves for an enriching post-secondary experience. In order to ensure that students are ready for the university setting, Advanced Placement courses are offered and taught at a much more rigorous level than the core curriculum offered at Quartz Hill High School. Because students have the potential to earn college credit for these classes, instructors are teaching the classes at a college level. Students will be required to do extensive critical thinking and writing. These courses are yearlong courses and students are expected to remain in the course for the entire year. Advanced Placement courses earn a .02 weighted grade point factor if they earn a grade of C or better, and have the ability to earn college credit if scoring a 3 or higher on the Advanced Placement subject tests that they can take in May of each school year.

Quartz Hill High School prides itself in offering a variety of Advanced Placement courses. The following courses are offered: Art History, Biology, Calculus AB, Calculus BC, Chemistry, English Language, English Literature, European History, French Language, Government/Poly Science, Human Geography, Physics B, Psychology, Spanish Language, Statistics, Studio Art, and US History.



## AVID

Students must apply to be in AVID

Elective credit: 10 credits each year – 4 year program

Prerequisite: Teacher recommendation/interview process

Description: AVID is an elective course which addresses the needs of students “in the middle” who have been identified by their core teachers, counselors, etc., as having the potential to be successful in a rigorous college preparatory program. The course provides the support and encouragement necessary for students to be successful, employing WIC-R strategies (writing to learn, inquire, collaboration, reading), tutorials, study skills, time management skills, test preparation strategies for the PSAT, SAT and ACT, college visitations, and motivational speakers. Students are taught Cornell note-taking skills and are required to maintain a well organized three-ring binder containing notes, calendars, learning logs, assignments, etc. They participate in collaborative projects which require higher-level thinking skills and problem solving.



## International Baccalaureate Diploma Program (IB)

The International Baccalaureate Diploma Program is a two year rigorous academic curriculum that requires acceptance through an application process. The IB Program prepares students for advanced placement in college and if qualified (through a battery of tests, completion of an extended essay, a creativity-action-service project [150 hours] and Theory of Knowledge) students will receive a special diploma from the International Baccalaureate Program.

Students in the QHHS IB program are required to maintain both satisfactory academic progress and citizenship. Students may be removed from Honors or IB classes if their grades fall below a “C”, if they earn less than a “Proficient” on the same subject California Standards Test (CST), or if they demonstrate inappropriate behavior. These courses are yearlong courses and

students are expected to remain in the course for the entire year. IB courses earn a .02 weighted grade point factor if they earn a grade of C or better, and some of the courses have the ability to earn college credit if scoring a 4 or higher on the SL/HL subject tests that they can take in May of each school year. The proposed IB sequence of courses is located on page 44.

## Project Lead the Way (PLTW) – Pathway to Engineering

The PLTW pathway to engineering curriculum is designed as a four-year high school sequence taught in conjunction with traditional math and science courses. The structured yet flexible high school program offers students in-depth, hands-on knowledge of engineering. This curriculum prepares students for demanding two- and four-year engineering careers. The program is divided into rigorous, relevant, reality-based learning experiences. The approach to learning flows from foundation courses to specialization.



- **Introduction to Engineering Design™**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

- **Principles of Engineering™**

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

- **Aerospace Engineering**

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

- **Civil Engineering and Architecture**

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software. Some students have seen these designs come to life through partnerships with local housing organizations.

- **Digital Electronics**

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

- **Engineering Design and Development - Capstone Course – Through AAV**

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

## Quartz Hill Television and Video Academy

Quartz Hill Television and Video Academy (QHTV) is a multifaceted program designed to take students through the full gamut Video production software, tools, and techniques. Instilling a large degree of work ethic

which can be used in multiple fields of profession, while encouraging critical thinking and problem solving in an ever evolving work-based learning production environment.

- **Intro to Film and Video Theory**

This introductory course of the QHTV Academy Pathway provides instruction and training for students interested in careers related to video and film production. It enhances written, verbal, visual composition skills necessary for understanding all the elements of film making art and craft. Students will continue explore various aspects of the media/entertainment industry as it relates to potential career selections, as well as educational applications and personal development skills. Students who achieve competency in this course will develop knowledge and skills in principles and elements of video/film production, both from the performance and technical aspects, and will be prepared to move on to the second/intermediary class of the QHTV Academy Pathway, Digital Video Production and Broadcasting.

- **Multimedia Contemporary Design 1**

Students will be immersed into a world of Multimedia Applications, exploring the fundamentals of the use of appropriate programs (Photoshop, After Effects, InDesign, Premier, Illustrator, Blender, etc.) and their application in Video and Business Marketing.

- **Digital Video Production & Broadcasting- One Year Course**

In this, the second/intermediary course of the QHTV Academy Pathway students will take video production and broadcast to the next level. Using digital A/V tools they will produce multiple media and news projects expressing their creative process and demonstrating their knowledge and understanding of pre-production, production, and post-production in the areas of video and broadcast media. Integrated throughout the course are career preparation standards such as communication skills, interpersonal skills, problem solving and other employment skills. Students who achieve competency in this course will be prepared to move on to the third/capstone class of the QHTV Academy Pathway, Advanced Art of TV and Video Production.

- **Advanced Art of TV and Video Production**

This the third/capstone course of the QHTV Academy Pathway course provides instruction and training for students interested in careers in the video, broadcast, and film production industries. Students experience both the creative and technical aspects of film making and video production in conjunction with learning about historical and contemporary traditions and conventions. Students will explore different aspects of the media and entertainment industry as it relates to potential career selections. Students achieving competency in this course will be prepared to enter a film or broadcast journalism course of study at the college level or be prepared for entry level employment in those fields.

## Special Education

**Open to Grades: 9, 10, 11, & 12**

ESS, TMH and SED programs are available **ONLY** with an Individualized Educational Program (IEP). RSP students will be mainstreamed and receive resource services within the Strategies for Success classes.



**Strategies for Success 9** - This course is for 9th grade students who need a resource support class per their IEP or 504 plans. The course emphasizes organizational and study skills along with an infusion of learning strategies (AVID based) along with reinforcement of core classes.

**Strategies for Success 10** - This course is for 10th grade students who need a resource support class per their IEP or 504 plans. This course is designed to reinforce learning strategies (AVID based), review the English Language Arts and Math standards found on the CAHSEE along with supporting the core classes.

**Strategies for Success 11** - This course is for 11th grade students who need a resource support class per their IEP or 504 plans. The course emphasizes a transition curriculum that helps prepare the student for post high school. The course also provides practice in learning strategies (AVID based) and support of core classes.

**Strategies for Success 12** - This course is for 12th grade students who need a resource support class per their IEP or 504 plans. The course emphasizes a transition curriculum, completion of graduation requirements, and preparing for post high school outcomes.

## Support Classes

**English 9 & Literacy Support** - One Year Course (2-period block)

Open to Grade: 9 & 10

**Prerequisite(s):** Students who demonstrate 4th - 6th grade reading level and/or score Far Below Basic on the California Standards Tests (CST's) in English Language Arts

**Description:** This two-period class incorporating High Point C and supplemental materials is designed to support the student's regular English class and provide remediation to bring the student's reading and writing skills up to the high school level. Students earn five elective credits and five English credits for this two-period class.

## Work Experience

Students enrolled in General and Exploratory Work Experience must attend required classroom instruction provided by the Work Experience Coordinator. Work Experience Education Standards are aligned with Board of Education approved curriculum. Some of the topics covered in four semesters include State and Federal Labor Laws, Sexual Harassment, Workers Compensation, Ethics at Work, Safety at Work, Students Rights at Work, Credit and Credit Cards, Identity Theft Protection, Protecting Yourself During a Workplace Robbery, Personal Budgeting and Goals, Payroll Deductions, Taxes, Resumes, Interviewing, Job Applications, Employment Documents, Letters of Recommendations and Resignation and Career Research.



### General Work Experience

Open to any student 16 years of age or older in grades 11 or 12.

This course will introduce the working student to the concepts involved in the world of work, and assist in their preparation and training with information and laws pertaining to the working minor.

Students must pre-enroll with an enrollment packet in which all legal documents must be signed by the Parent/Guardian, the employer and the student. All

job sites must be pre-approved by the Work Experience Coordinator prior to enrollment. Students must have a job to enroll into General Work Experience and must have a "C" average or above with no "F" grades throughout the entire enrollment per AVUHSD requirements in order to hold a clear work permit.

All students have an opportunity to earn 10 elective credits per semester for a maximum of 40 semester credits during a 2 year period. Students may also be on a 4/4 or 5/5 reduced day schedule in order to meet the requirements of the program.



### Exploratory Work Experience

Open to any student 16 years of age or older in grades 11 or 12.

This course assists students seeking community service hours and exploring career options. The student is required to perform non-paid work activities while exploring the occupation on a limited, periodic and sampling basis.

The length of the exploratory assignment may vary, depending on the aptitude of the student, the occupation being explored, the facilities of the work station and the job classification.

The school district provides workers' compensation insurance for the student. Students receive no pay but earn school credit. The school district provides close supervision to assure that students are not exploited and do not replace paid employees.

Students must have a voluntary position before enrolling into Exploratory Work Experience and must have a "C" average or above with no "F" grades throughout their entire enrollment per AVUHSD requirements, in order to earn credits.

All students have an opportunity to earn 5 elective credits per semester for a maximum of 20 semester credits during a 2 year period. Students may also be on a 5/5 reduced day schedule in order to meet the requirements of the program.

# Course Descriptions

The prerequisite course listed with each course description is the strongly **recommended background** necessary for student success at that level. Although the courses do have ability levels, the courses are not "tracked" as students do move up and down levels during the high school career.

We strongly encourage students to maintain a reasonable balance among academic course load, extracurricular activities, and personal time to contribute to their social and emotional well-being. It is extremely important for students and parents to make an informed decision during the registration process regarding which course and level is most appropriate for the student.

Due to a variety of factors, the selection of a course and level should be considered a year-long commitment. In order to maintain class sizes that are equitable for all students, it has become difficult to switch levels once the schedule has been completed. As a result there can be no guarantee that a space will be available in another course or level during a preferred period.

# Application/Approval Required Electives

## AVID -1,2,3 & 4

Open to Grades: 9 - 12

**Prerequisite(s):** Application, interview, and contract required

**Description:** AVID is offered as an elective course that prepares students for entrance into four-year colleges. There is an emphasis on analytical writing, preparation for college entrance and placement exams, study skills and test taking, note-taking, and research. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, and reading to support their academic growth. AVID students learn skills such as time management, note-taking, textbook reading, library research, and maintaining the AVID binder. Students are expected to maintain an organized binder including an assignment calendar, class and textbook notes, assignments, and homework, which is graded regularly. **Students who enroll in the course should be prepared to commit to the program for four years.**



## Journalism (UBIQUITY Production Staff) - One Year Course *(Elective credit only - may be repeated)*

Open to Grades: 9, 10, 11, & 12

**Prerequisites:** Application which includes a writing sample; instructor will keep an approved list

**Description:** This course is designed for the student interested in the field of mass communication. Emphasis is placed on publication of a student newspaper. Students coming into the Journalism class have the opportunity not only to learn how to write a newspaper article but can also learn page layouts and computer skills. Students will also

learn how to write headlines as part of the course. Journalism students can also learn how to take pictures and about digital photography. Students also have the opportunity to learn about selling ads, working with retail customers, sending out tear sheets, and handling billing and collections.

## Student Government & Leadership - One Year Course

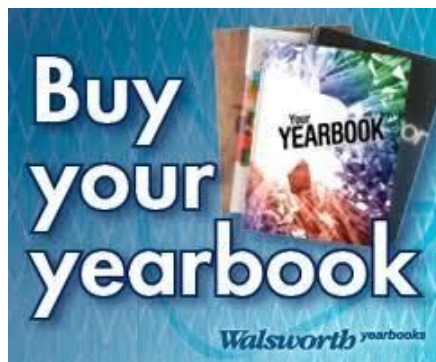
Open to Grades: 9, 10, 11, & 12; class meets daily; available zero period (10 - 12) or 4<sup>th</sup> period (9 - 12)

**Prerequisites:** ASB Advisor signature and application (available online or in ASB room 102)

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade



**Description:** Combines classroom instruction with leadership practice in a laboratory of practical school situations. Focus is on the five Leadership Standards strands of: Communication, Service Learning, Government, Personal and Social Development, and Business. This course provides student leaders with the opportunity to study the concepts of democratic government: the meaning and techniques of leadership, parliamentary procedures and group processes, the principles of human behavior, the objective of education, and the problems of school administration.



**Advanced Journalism (Yearbook) -One Year Course (*Elective credit only - may be repeated*)**

**Open to Grades: 9, 10, 11, & 12**

**Prerequisites:** Completed application and recommendation forms must be submitted and accepted by advisor before enrollment; instructor will keep an approved list

**Description:** This is a year-long course that is responsible for the production of the school yearbook. Students will learn computerized methods of page layout, design, and graphics (using Adobe InDesign, Illustrator & Photoshop, and Microsoft Word), photography, and copy, caption, and headline-writing skills. Students will also learn to digitize

and retouch graphics and photographs. The students are responsible for meeting the deadlines associated with a professional publication. Sales, advertising, and marketing skills are taught in conjunction with the promotion of the yearbook and are a percentage of the course grade. This class requires all students to sell advertising to community businesses and also requires time outside the normal school day in order to meet deadlines.

# Behavioral Science Department



**AVID Health Survey/Healthful Living – One Year Required Course**

**Open to Grade: 9**

**Description:** This course is a health class based on the philosophy that prevention and making healthy lifestyle choices is important to lifelong wellness. The course offers enriching experiences so the students recognize and use skills to improve self-esteem, manage stress, manage time, improve communication, and understand work ethics. The fall semester is called “AVID Health Survey.” Students have the opportunity to explore different careers, and are exposed to college and career readiness skills such as organization skills, test taking skills, levels of inquiry and Cornell notes. These skills are incorporated into Health curriculum that deals with goals and decision making as well as teenage issues such as conflict, violence, bullying, relationships and peer pressure. Second semester is called “Healthful Living.” Students learn about nutrition, eating disorders, substance use and abuse, diseases and the reproductive system. The course is taught with an emphasis on the practical aspects of healthy adjustment to life experiences. Abstinence is emphasized in all areas of the course. Students are encouraged to discuss the various topics of the course with their families.

### Psychology - One Year Course

**Open to Grades: 11 & 12**

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Description:** This course will introduce students to the study of the behavior and mental process of humans and other animals. Student will study psychological facts, principles, and phenomena associated with psychology (including mental, emotional, and behavioral disorders). Students will also study the various treatment techniques (therapies) used by psychologists to treat various disorders.

### Psychology AP - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** B grade in previous English class highly recommended; must be proficient in word processing; must have knowledge of statistics and extensive research skill

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Description:** This course is designated for Advanced Placement or non-diploma International Baccalaureate students. Psychology AP will introduce students to the systematic and scientific study of the behavior and mental process of humans as well as other animals. Students will study psychological facts, principles, and phenomena associated within the major subfields of psychology as well as methods used by psychologists in their science and practice. Through exhaustive research, students will conduct a valid psychology experiment requiring extensive research and data analysis. The learning experience will be equivalent to university introductory psychology courses. Students will prepare to take the Psychology AP exam at the end of the school year. A score of three on the AP exam will allow the student to opt out of six college credits.



### Psychology IB SL - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** B grade in previous English class highly recommended; must be proficient in word processing; must have knowledge of statistics and extensive research skill

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Description:** This course is designated for International Baccalaureate Diploma students only. IB (SL) Psychology will introduce students to the systematic and scientific study of the behavior and mental process of humans as well as other animals. Students will study psychological facts, principles, and phenomena associated within the major subfields of psychology as well as methods used by psychologists in their science and practice. The curriculum is focused on areas deemed relevant for the IB Diploma. Through exhaustive research, students will conduct a valid psychology experiment requiring extensive research and data analysis. The learning experience will be equivalent to university introductory psychology courses. Students will prepare to take the International Baccalaureate (SL) Psychology essay exam at the end of the school year.

# English Department

The prerequisite course listed with each course description is the strongly **recommended background** necessary for student success at that level. Although the courses do have ability levels, the courses are not "tracked" as students do move up and down levels during the high school career.

**We strongly encourage students to maintain a reasonable balance among academic course load, extracurricular activities, and personal time to contribute to their social and emotional well-being. It is extremely important for students and parents to make an informed decision during the registration process regarding which course and level is most appropriate for the student.**

**Due to a variety of factors, the selection of a course and level should be considered a year-long commitment. In order to maintain class sizes that are equitable for all students, it has become difficult to switch levels once the schedule has been completed. As a result there can be no guarantee that a space will be available in another course or level during a preferred period.**

## **English 9 - One Year Course**

**Open to Grade: 9**

**UC A-G Certification: Meets the UC A-G [B] English requirement with a C or better grade**

**Description: One-year course in which students, through the study of literature, develop skills in higher-order reading comprehension, language usage and writing, literary analysis, critical thinking, speaking and listening, and academic research.**

## **English 9 & Literacy Support - One Year Course (2-period block)**

**Open to Grades: 9**

**Prerequisite(s): Students who demonstrate 4th - 8th grade reading level and/or score Far Below Basic or Below Basic on the CST in English Language Arts**

**Description: This two-period class incorporating High Point C and supplemental materials is designed to support the student's regular English class and provide remediation to bring the student's reading and writing skills up to the high school level. Students earn five elective credits and five English credits for this two-period class.**

## **English 9 Honors - One Year Course**

**Open to Grade: 9**

**Prerequisites: Acceptance into class is based on middle school grades, CST scores, teacher recommendations, writing sample; students must maintain a C average to remain enrolled in honors-level courses**

**UC A-G Certification: Meets the UC A-G [B] English requirement with a C or better grade**

**Description: One-year rigorous course with an emphasis on extended expectations in which students, through the study of literature, develop skills in higher-order reading comprehension, language usage and writing, literary analysis, critical thinking, speaking and listening, and academic research.**

## **English 10 - One Year Course**

**Open to Grade: 10**

**UC A-G Certification: Meets the UC A-G [B] English requirement with a C or better grade**

**Description: One-year course in which students, through the study of literature, develop skills in reading comprehension, language usage and writing, literary analysis, critical thinking, speaking and listening, and academic research.**

## **English 10 Honors - One Year Course**

**Open to Grade: 10**

**Prerequisites:** C during both semesters of English 9 Honors or A during both semesters of English 9 strongly suggested; teacher recommendation; students must maintain a C average to remain in good standing and enrolled in honors-level classes

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** Rigorous one-year course with an emphasis on extended expectations in which students, through the study of literature, develop skills in higher-order reading comprehension, language usage, writing, literary analysis, critical thinking, speaking and listening, and academic research.

## English 11 - One Year Course

**Open to Grade:** 11

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** One-year course in which students, through the study of American literature, further develop skills in reading comprehension, language usage, writing, literary analysis, critical thinking, speaking and listening, and academic research.

## English 12 / Bible and Literature - One Year Course

**Open to Grade:** 12

**Prerequisites:** B grade in both semesters of English 11 highly recommended

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** The Bible is presented as a major, classic literary foundation piece of Western Civilization. It is studied as the basis of a shared Judeo-Christian heritage within which many of the laws and mores of Western Civilization find their origins. It is studied, also, as primary source material for a vast array of literary allusions in classic and modern literature. Students should be prepared to do a great deal of study, writing, and critical thinking. Extended reading lists include college-recommended material containing the allusions and references covered in class. This is an excellent support class for AP and IB English classes and for serious students of literature. The literature of the Old Testament and its historical surroundings will be presented first semester, while the New Testament will be the focus of the second semester.



## English 12 / Expository Reading and Writing - One Year Course

**Open to Grade:** 12

**Prerequisites:** C grade in English 11 recommended

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** The goal of the Expository Reading and Writing course is to prepare college-bound seniors for the literacy demands of higher education. Through a sequence of fourteen rigorous instructional modules, students in this rhetoric-based course develop advanced proficiencies in expository, analytical, and argumentative reading and writing. The cornerstone of the course, the assignment template, presents a process for helping students read, comprehend, and respond to non-fiction and literary texts.

## English 12 / Film and Literature - One Year Course

**Open to Grade:** 12

**Prerequisites:** C grade in English 11 recommended

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better



IT'S NOT WHAT A MOVIE  
IS ABOUT, IT'S HOW IT IS  
ABOUT IT

## grade

**Description:** This course is aimed at enriching the experience of textual literary enquiry through the study of cinema. As an English 12 course, we will certainly be reading, discussing and analyzing literature and shorter works of non-fiction. However, this course also provides a general introduction to the study of film as an artistic and literary medium and focuses on the key terms and concepts used to describe, interpret, critique and write about the film experience. All coursework is designed around film genres and/or styles, including comedy, Western, world cinema, Film Noir, horror, and musicals. Students will be expected to think critically about film and literature, actively participate in Socratic Seminars, engage in an array of writing assignments, procure assigned films to watch at home, and complete major, multi-faceted film projects.

## English 12 / Science Fiction - One Year Course

**Open to Grade:** 12

**Prerequisites:** C grade in English 11 recommended; a sincere desire to improve writing and critical thinking skills in preparation for college level courses, as well as a strong imagination

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** This college-prep English class is designed for students who want to improve their critical reading and writing skills and are interested in the literature of science fiction; the core of reading materials will be Science Fiction literature with an emphasis on British authors such as Jules Verne, H. G. Wells, Aldous Huxley, J. R. R. Tolkien, and other well-known British authors. Students should be prepared to do a good amount of writing, critical analysis and research which will prepare them for the rigors of higher education. Essays, book reports, critical analyses, and a research paper will be required.

## English IB HL1 - One Year Course

**Open to Grade:** 11

**Prerequisites:** C grade in English 10 Honors or B in English 10 highly recommended, acceptance to the IB Program

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** This is the first year of a two-year course of study in which students will be prepared to take the IB English examination at the Higher Level (HL). Through the study of core works of both American and World Literature in translation, students will refine both their critical reading and writing skills. By developing their powers of expression in a wide variety of discourse modes, students will become effective communicators prepared for the rigors of university-level work. Students will become familiar with various techniques of literary study and criticism and will apply these to core readings as methods by which to construct meaning beyond the literal and obvious. Exposure to a range of literary genres, styles, and contexts and works translated from languages other than their own will give the students an international perspective and a deeper understanding of many world views.

## English IB HL2 - One Year Course

**Open to Grade:** 12

**Prerequisites:** C grade in English IB HL1

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** This is the second year of a two-year course of study in which the student will be prepared to take the IB English examination at the Higher Level (HL). Through the study of core works of American, British, and World Literature in translation, students will refine both their critical reading and writing skills. By developing their powers of expression in a wide variety of discourse modes, students will become effective communicators prepared for the rigors of university-level study. Students will become familiar with various techniques of literary study and criticism and will

apply these to core readings to construct meaning beyond the literal and obvious. Exposure to a range of literary genres, styles, and contexts and works translated from languages other than their own will give the students an international perspective and a deeper understanding of many world views.

## English Language Development (ELD) Beginning - One Year Course

**Special Note:** ELD classes fulfill the four-year English QHHS graduation requirement if taken during the fourth year of high school; however, they do NOT meet CSU or UC English requirements.

**Open to Grades:** 9, 10, 11, & 12 (2-period course)

**Prerequisite(s):** ELD testing (language assessment) or teacher recommendation.

**Description:** Through language experience and other natural approach activities, students will experience instructional activities which integrate language and culture. Students will participate in basic conversations and will generate simple sentences and short paragraphs.



## English Language Development (ELD) Early Intermediate - One Year Course (2-period course)

**Special Note:** ELD classes fulfill the four-year English QHHS graduation requirement if taken during the fourth year of high school; however, they do NOT meet CSU or UC English requirements.

**Open to Grades:** 9, 10, 11, & 12 (2-period course)

**Prerequisites:** ELD testing (language assessment) or teacher recommendation

**Description:** The students will acquire skills needed for conversing and writing in English. Students will write a paragraph demonstrating knowledge of Standard English grammar, punctuation, and tense. Through a study of literature and the core curriculum students will increase comprehension skills.

## English Language and Composition AP - One Year Course

**Open to Grade:** 11

**Prerequisites:** C grade in English 10 Honors or B grade in English 10 recommended

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** AP English Language and Composition is a challenging college-level class that emphasizes critical thinking and analytical reading of a variety of prose styles and also focuses on writing for diverse purposes and audiences. Using models of writing from fiction and nonfiction sources, students will analyze an array of works with diverse subjects and styles. Most students in this class take the AP examination in May, which requires that they read with sensitivity and understanding and write cogently and persuasively. Students will work to develop these skills to become effective writers and insightful readers with understanding of purpose, stylistic strategies, and effect.

## English Literature and Composition AP - One Year Course

**Open to Grade:** 12

**Prerequisites:** C grade in English Language and Composition or English IB HL1

**UC A-G Certification:** Meets the UC A-G [B] English requirement with a C or better grade

**Description:** This is a college-level class designed for students who plan to continue with their education at the university level. The focus of the class is to prepare students for the Advanced Placement Literature and Composition Examination, taken in the spring. Emphasis is placed on the development of skills in writing critical analyses of major works of literature and poetry.

## Creative Writing - One Year Course

**Open to Grade: 10, 11, 12**

**UC A-G Certification: Creative Writing meets the UC A-G [G] Elective requirement**

**Description:** This course is for students interested in experimenting with various forms of literary composition and having an outlet for their creative writing interests. Creative Writing is an elective course designed to introduce students to various forms of writing, emphasizing knowledge, skill-building, and experimentation. Students will read, analyze, and write, covering a variety of genres including but not limited to poetry, descriptive and dramatic scenes, fiction and nonfiction storytelling, and scripts.

**Speech (Public Speaking) - One Year Course (may be repeated)**

**Open to Grades: 10, 11, & 12**

**UC A-G Certification: Speech meets the UC A-G [G] Elective requirement with a C or better grade**

**Description:** Students in Advanced Speech will concentrate on interscholastic speaking activities that stress persuasion: extemporaneous speaking, oratory, and debate. Media studies will also be included as part of the course study.



**AP Seminar - One Year Course (may be repeated)**

**Open to Grades: 11, 12**

**UC A-G Certification: AP Seminar meets the UC A-G [G] Elective requirement with a C or better grade**

**Description:** AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

# Foreign Language Department

**French 1 - One Year Course**

**Open to Grades: 9, 10, & 11**

**Prerequisites: C grade in English or teacher recommendation**

**UC A-G Certification: Meets the UC A-G [E] Language requirement with a C or better grade**

**Description:** A course introducing the fundamentals of the French language: listening and speaking skills, reading, and writing. Aural-oral skills are emphasized; basic grammatical structures and vocabulary are thoroughly treated. The cultures of French-speaking nations are used throughout as the basic context for the language.

## French 1 Honors - One Year Course

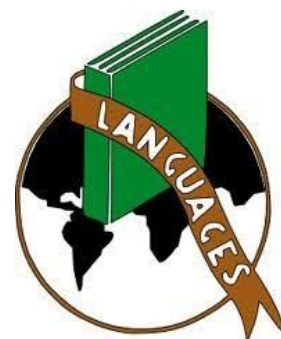
Open to Grade: 9 & 10

Prerequisites: Acceptance into class is based on middle school grades, test scores, teacher recommendations, writing sample; students must maintain a C average to remain enrolled in honors-level classes

UC A-G Certification: Meets the UC A-G [E] Language requirement with a C or better grade

Description: A rigorous college-prep course introducing the fundamentals of the French language: listening and speaking skills, reading, and writing.

Aural-oral skills are emphasized; basic grammatical structures and vocabulary are thoroughly treated. The cultures of French-speaking nations are used throughout as the basic context for the language. This course is appropriate as preparation for the foreign language component of the IB Program.



## French 2 - One Year Course

Open to Grades: 9, 10, 11, & 12

Prerequisites: C grade in French 1 or its equivalent

UC A-G Certification: Meets the UC A-G [E] Language requirement with a C or better grade

Description: A continuation of the study of the fundamentals of French with further practice of listening and speaking skills. Basic grammatical structures are expanded along with useful and topical vocabulary.

## French 2 Honors - One Year Course

Open to Grades: 9, 10, & 11

Prerequisites: C grade in French 1 Honors; students must maintain a C average to remain enrolled in honors-level classes

UC A-G Certification: Meets the UC A-G [E] Language requirement with a C or better grade

Description: A continuation of the first level with further practice of listening, speaking, reading, and writing skills. Emphasis will be placed on intense knowledge of vocabulary, grammatical structures, and verb tenses used in essays, oral and written reports/presentations, and in practical situations. The cultural segments in this course will broaden the student's awareness and appreciation for the language and its people. This course is appropriate as preparation for the foreign language component of the IB Program.

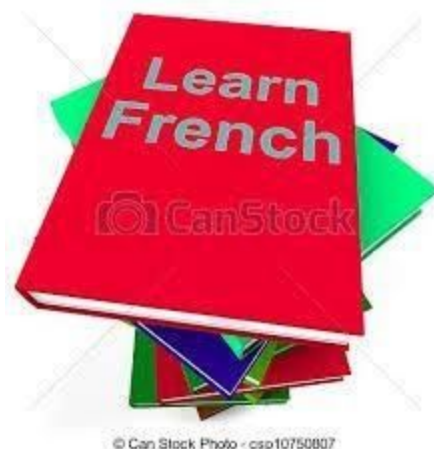
## French 3 - One Year Course

Open to Grades: 10, 11, & 12

Prerequisites: B grade in French 2; C in French 2 Honors

UC A-G Certification: Meets the UC A-G [E] Language requirement with a C or better grade

Description: A continuation of French 2 with greater emphasis on listening, speaking, reading, and writing. The remainder of major grammatical structure is studied here. Special emphasis is given to words and expressions needed for practical situations. This course is strongly recommended to college-bound students planning careers in which one deals with the public.



## French Language IB SL - One Year Course

Open to Grades: 11 & 12

Prerequisites: C grade in French 1, 2, and 3; enrollment will be determined by assessment and

approval of teacher

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** Course will be taught in French designed to help students to achieve satisfactory grades on the IB test given during the first week of May of each year. This passing grade is worth six (6) college semester credits. The result of this preparation will be to help the student become quite functional in the language, enable him/her to listen, speak, read, and write on a variety of topics. The cultural segments of instruction should enable the student to use the language appropriately with native speakers. This class prepares the student for the IB French examination at the Standard Level (SL).

### Spanish 1 - One Year Course

**Open to Grades:** 9, 10, & 11

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** A college-prep course whose study is based on a listening-speaking approach. Learning is by imitation of the foreign language patterns that are used as the foundation for listening, speaking, reading, and writing. Customs, culture, and geography of Spanish-speaking countries are presented as well.

### Spanish 1 Honors - One Year Course

**Open to Grades:** 9 & 10

**Prerequisites:** Acceptance into class is based on middle school grades, test scores, teacher recommendations, writing sample; students must maintain a C average to remain enrolled in honors-level classes

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** A rigorous college-prep course whose study is based on a listening-speaking approach. Learning is by imitation of the foreign language patterns that are used as the foundation for listening, speaking, reading, and writing. Customs and culture are presented as well. This course is in preparation for the foreign language component of the IB Program.



### Spanish 2 - One Year Course

**Open to Grades:** 9, 10, 11, & 12

**Prerequisites:** C grade in Spanish 1

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** A continuation of the first level as described above with further practice of listening, speaking, and writing skills. Basic grammatical structures are expanded along with useful and topical

vocabulary.

### Spanish 2 Honors - One Year Course

**Open to Grades:** 9 & 10

**Prerequisites:** C grade in Spanish 1 Honors; students must maintain a C average to remain enrolled in honors-level classes

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** A continuation of the first level with further practice of listening, speaking, reading, and writing skills. Emphasis will be placed on intense knowledge of vocabulary, grammatical structures, and verb tenses used in essays, oral and written reports/presentations, and in practical situations. The cultural segments in this course will broaden the student's awareness and appreciation for the language and its people. This course is in preparation for the foreign language component of the IB

Program.

## Spanish 3 - One Year Course

**Open to Grades:** 10, 11, & 12

**Prerequisites:** C grade in Spanish 2

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** A continuation of Spanish 2 with greater emphasis on listening, speaking, reading, and writing. The remainder of major grammatical structure is studied here. Special emphasis is given to words and expressions needed for practical situations. This course is strongly recommended to college-bound students planning careers in which one deals with the public.

## Spanish 3 Honors - One Year Course

**Open to Grades:** 10, 11, 12

**Prerequisites:** C grade in Spanish 2 Honors or a grade of B in Spanish 2

**UC A-G Certification:** Meets the UC A-G (E) language requirement of a C or better grade

**Description:** This is the first year of a two year course of study in which students will be prepared to take the IB Spanish examination at the Standard Level. The purpose of this course is to expand previously acquired Spanish skills. The course will emphasize linguistic, cultural and social aspects of the language by developing oral fluency and accuracy, comprehension of various authentic and adopted Spanish texts, production of written activities, development of listening skills for effective Spanish communication and integration of cultural, social and historical aspects of the Spanish speaking world throughout the course.

## Spanish Language AP - One Year Course

**Open to Grades:** 11 & 12

**Prerequisites:** C grade in Spanish 1, 2, and 3; enrollment will be determined by assessment

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** Course will be taught in Spanish designed to help students to achieve satisfactory grades on the AP test given during the month of May of each year. This passing grade is worth six (6) college semester credits. The result of this preparation will be to help the student become quite functional in the language, enable him/her to listen, speak, read, and write on a variety of topics. The cultural segments of instruction should enable the student to use the language appropriately with native speakers. The class will follow the prescribed guidelines for the Advanced Placement examination.



## Spanish Language IB SL - One Year Course

**Open to Grades:** 11 & 12

**Prerequisites:** C grade in Spanish 1, 2, and 3; enrollment will be determined by assessment; students must be an IB Diploma candidate to enroll in this class

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** Course will be taught in Spanish designed to help students to achieve satisfactory grades on the IB test given during the month of May of each year. The result of this preparation will be to help the student become quite functional in the language, enable him/her to listen, speak, read, and write on a variety of topics. The cultural segments of instruction should enable the student to use the language appropriately with native speakers. The class will follow the prescribed guidelines for the IB Examinations. This class prepares the student for the IB Spanish examination at the Standard Level (SL).

### Spanish Literature and Culture AP - One Year Course

**Open to Grades:** 11 & 12

**Prerequisites:** C grade in Spanish 1, 2, and 3 and have successfully passed the AP Language and Culture assessment.

**UC A-G Certification:** Meets the UC A-G [E] Language requirement with a C or better grade

**Description:** The AP Spanish Literature course is designed to provide students with a learning experience equivalent to that of a third-year college course in Peninsular and Latin American literature. The course is designed to introduce students to the formal study of a representative body of Peninsular and Latin American texts. The Proficiencies acquired through the study of languages and literatures endow language learners with cognitive, analytical, and communication skills that carry over into many other areas of their academic studies. Readings are selected from 7 centuries of literature, including the Medieval and Golden Age, Nineteenth-Century and Twentieth Century Literature.

## Industrial Technology Department

**Special Note:** Classes in the Industrial Technology Department are one year in length and some may be repeated. Students may enter classes at the semester after completing an interview with the teacher in the appropriate area. A safety test will have to be passed before any lab work is allowed.

### Computer Integrated Manufacturing

**Description:** The course deepens the skills and knowledge of an engineering student within the context of efficiently creating the products all around us. Students build upon their Computer Aided Design (CAD) experience through the use of Computer Aided Manufacturing (CAM) software. CAM transforms a digital design into a program that a Computer Numerical Controlled (CNC) mill uses to a block of raw material into a product designed by a student. Students learn and apply concepts related to integrating robotic systems such as Automates Guided Vehicles (AGV) and robotic arms into manufacturing systems. Throughout the course students learn about manufacturing processes and systems. This course culminates with a capstone project where students design, build, program, and present a manufacturing system model capable of creating a product.

### Computer Science Principles AP- One Year Course

**Open to grades:** 9, 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**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 A- One Year Course

**Open to grades:** 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Description:** The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data

structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.

## **Introduction to Engineering Design (IED) - One Year PLTW Foundation Course (Entry Level)**

**Open to Grades:** 9, 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Prerequisites:** Requires concurrent enrollment in college preparatory math course (Algebra 1, Geometry, Algebra 2, or higher)

**Description:** Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

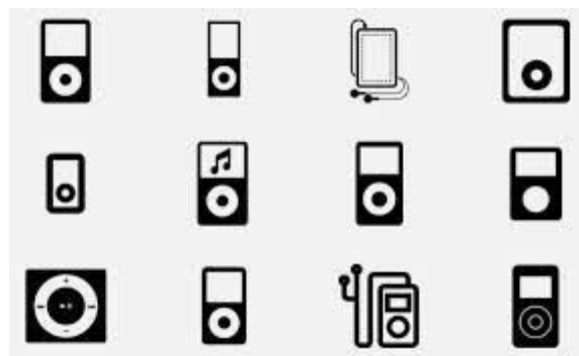
## **AVC Principles of Engineering Honors (POE) - One Year PLTW Foundation Course (Entry Level)**

**Open to Grades:** 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Prerequisites:** Completion of Introduction to Engineering Design or instructor approval and successful completion or concurrent enrollment in Geometry

**Description:** Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.



## **AVC Digital Electronics Honors (DE) - One Year PLTW Specialty Course**

**Open to Grades:** 11 & 12

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Prerequisites:** Completion of Principles of Engineering or instructor approval

**Description:** From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering,

electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

## **Aerospace Engineering Honors (AE) - One year PLTW Specialty Course**

**Open to grades:** 11& 12

**Prerequisites:** Completion of Principles of Engineering course or instructor approval

**Description:** This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \bar{x})^2}$$

# Mathematics Department

The prerequisite course listed with each course description is the strongly recommended background necessary for student success at that level. Although the courses do have ability levels, the courses are not “tracked” as students do move up and down levels during their high school education.

We strongly encourage students to maintain a reasonable balance among academic course load, extracurricular activities, and personal time to contribute to their social and emotional well-being. It is extremely important for students and parents to make an informed decision during the scheduling process regarding which course and level is most appropriate for the student.

Due to a variety of factors, the selection of a course and level should be considered a year-long commitment. In order to maintain class sizes that are equitable for all students, it has become very difficult to switch levels once the schedule has been completed. As a result there can be no guarantee that a space will be available in another course or level during a *preferred* period.

## Algebra 1 - One Year Course (Required for graduation)

Open to Grades: 9, 10, 11, & 12

UC A-G Certification: Meets the UC A-G [C] Mathematics requirement with a C or better grade

Description: A study of the structure of the real number system and of ways of solving problems by using equations, inequalities, graphs, and simplification of algebraic expressions. Important foundations are laid for advanced mathematics in the study and use of sets, radicals, and the quadratic formula. This is the first college-required course for three years of high school mathematics.

## Algebra 2 - One Year Course

Open to Grades: 9, 10, 11, & 12

Prerequisites: C grade in Algebra 1 and Geometry; 9<sup>th</sup> grade placement acceptance into class is based on middle school grades, test scores, and/or teacher recommendations

UC A-G Certification: Meets the UC A-G [C] Mathematics requirement with a C or better grade

Description: The concepts and operations of Algebra 1 are extended. A **MUST** course for students planning to attend college. This is the third college-required course for three years of high school mathematics.

## Algebra 2 / Trigonometry - One Year Course

Open to Grades: 10, 11, & 12

Prerequisites: A grade in Algebra 1 and Geometry strongly recommended

UC A-G Certification: Meets the UC A-G [C] Mathematics requirement with a C or better grade

Description: To the course of Algebra 2 is added: math induction, determinants, matrices, elements of analytic geometry, theory of equations, and a complete course in plane trigonometry. This course is for students who will be taking Calculus or a mathematics IB SL course the following year.

### Calculus AB AP - One Year Course

**Open to Grades: 10, 11 & 12**

**Prerequisites:** C grade Algebra 2/Trigonometry, Trig / PreCalculus, or Math Studies IB SL required

**UC A-G Certification:** Meets the UC A-G [C] Mathematics requirement with a C or better grade

**Description:** This is a college-level course in differential and integral calculus, equivalent to one semester of calculus at most universities. Topics include a review of functions, an introduction to limits and continuity, derivatives and their applications, integrals and their applications, and an introduction to differential equations using slope fields and Euler's method. There is an emphasis on conceptual understanding and working with functions represented graphically, numerically, analytically, and verbally. The TI-83 /

TI-84 graphing calculator is used extensively. This course will prepare the student for the AP Calculus AB exam.



### Calculus BC AP - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** C grade in Calculus AB AP or Mathematics IB SL

**UC A-G Certification:** Meets the UC A-G [C] Mathematics requirement with a C or better grade

**Description:** This is a college-level course in differential and integral calculus, equivalent to the first two semesters of calculus at most universities. Topics include an introduction to limits and continuity, integrals and their applications, an introduction to differential equations using slope fields and Euler's method, Taylor polynomials and series, and calculus using parametric, vector, and polar equations. There is an emphasis on conceptual understanding and working with functions represented graphically, numerically, analytically, and verbally. The TI-83 / TI-84 graphing calculator is used extensively. This course will prepare the student for the AP Calculus BC exam.

### Geometry - One Year Course

**Open to Grades: 9, 10, 11, & 12**

**Prerequisites:** C grade in Algebra 1; students earning a D in either semester of Algebra 1 will be allowed to take Geometry, however, be aware that colleges will not accept a D grade as a passing grade

**UC A-G Certification:** Meets the UC A-G [C] Mathematics requirement with a C or better grade

**Description:** A study of the properties and relationships of the geometric figures, both in a plane and in space, with an introduction to the formal written proof. Instruction includes formulas for measurements and other applications, deductive and inductive reasoning, and introduction to Analytic Geometry. This is the second college-required course for three years of high school mathematics.

### Introduction to Probability & Statistics - One Year Course

**Open to Grades: 12**

**Prerequisites:** Algebra 1

**Description:** Introduction to Probability and Statistics is an introductory course to the tools of statistics. This basic course in statistics is to introduce students to statistical ideas and their impact on everyday life and future fields of study. Students are exposed to four broad conceptual themes:

•Producing data •Organizing data •Chance •Inference

### Mathematics IB SL - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** B grade in Algebra 2/Trig or equivalent; this class is not available to students who have completed Math Studies SL

**UC A-G Certification:** Meets the UC A-G [C] Mathematics requirement with a C or better grade

**Description:** This is a one-year course that will prepare students to take the IB Math examination at the Standard Level (SL). The purpose of the course is to provide the IB student with the necessary tools in the field of mathematics to continue his/her education and show a basic competency in the field. Units of study will include numbers, algebra, coordinate geometry, geometry and trigonometry, functions and calculus, vectors and matrices, probability, statistics, and analytical geometry. Students who earn an A may take AP Calculus BC the following year. Students who earn a B or better may take AP Calculus AB. Students who earn a C or better may take AP Statistics.

### Statistics AP - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** C grade in Algebra 2/Trig or equivalent; B grade in Mathematical Studies IB SL

**UC A-G Certification:** Meets the UC A-G [C] Mathematics requirement with a C or better grade

**Description:** This is a college-level course in statistics, equivalent to one semester of statistics at most universities. This non-calculus-based course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1) Exploring Data - Observing patterns and departures from patterns, 2) Planning a Study - Deciding what and how to measure, 3) Anticipating Patterns - Producing models using probability theory and simulation, 4) Statistical Inference - Confirming models. This course will prepare students for the AP Statistics exam.



### Trigonometry/Pre-Calculus - One Year Course

**Open to Grades: 10, 11 & 12**

**Prerequisites:** B grade in Algebra 2 or equivalent

**UC A-G Certification:** Meets the UC A-G [C] Mathematics requirement with a C or better grade

**Description:** The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. A study of Algebra topics: linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; conic sections; and sequences and series. Trigonometry concepts of trigonometry ratios and functions; applications of trigonometry, including vectors and laws of cosine and sine. Polar functions and notation and arithmetic of complex numbers. This course is needed for college majors in the fields of science, engineering, and mathematics.

# Physical Education Department

### Physical Education 2 (Year One) - One Year Course

**Open to Grade: 9**

**Description:** This is a core program designed to introduce the freshman student to a wide variety of individual and some team activities. Health related fitness will be integrated throughout the entire

program. Students will be able to demonstrate proficiency and knowledge regarding the following activities: “Physical Fitness”, dance, paddle ball, weights, volleyball, softball, soccer, football, and basketball. Emphasis will be on preparation for the Fitness Gram (California Physical Fitness Test). Students must pass 5 out of the 6 criteria tested by the Fitness Gram. Students will be required to continue enrolling in a P.E. class until they pass the Fitness Gram.

### Physical Education 2 (Year 2) - One Year Course

Open to Grade: 10

Description: This is a continuation of the core program designed with an emphasis on team activities with some individual activities. An emphasis on physical fitness will be integrated into the overall program. Students will be able to demonstrate proficiency and knowledge regarding the following activities: basketball, soccer, flag football, weights, tennis/paddle ball, softball, volleyball, and “funology”.

### Physical Education 3 Dance - One Year Course

Open to Grade: 11 & 12; 10 if passed the Physical Fitness Test in 9<sup>th</sup> grade

Description: In this course students will learn about different types of dance and develop an appreciation of dance as a lifelong physical activity. As part of class instruction, students will learn and practice various components of dance including: alignment, balance, agility, and strength. These components will be addressed within the context of various styles of dance and different dance techniques. Students will explore and engage in a variety of dance techniques including ballet, jazz, folk, modern, and tap. In addition to learning and practicing different styles of dance, students will also study both the historical and artistic forms of the different types of dance. Students will also gain an understanding of the history of dance. Students will also learn the skills required to prepare for a dance performance.



### Physical Education 3 Weightlifting - One Year Course

Open to Grade: 11 & 12; 10 if passed the Physical Fitness Test in 9<sup>th</sup> grade

Description: In this course students will learn and perform motor skills required in both strength training activities and aerobic activities. The students will work in cooperation with other students in training activities as well as spotting techniques. The students will learn the principles of biomechanics involved in safe and successful fitness training. Students will eventually create their own fitness and strength training program to meet their individual fitness needs. The course will focus on each student learning different training strategies in order to meet different levels of strength, power, and endurance. This knowledge will enable each student to create his/her individual training plan.

# Science Department

## Anatomy and Physiology - One Year Course

**Special Note:** This course involves extensive dissection of cats and other anatomical parts. Do not take this course if you have animal allergies of any kind.

**Open to Grades:** 11 & 12

**Prerequisites:** B grade in both semester of Biology and Chemistry

**UC A-G Certification:** Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

**Description:** This course is designed specifically for those students whose college or career plans include a possible emphasis on the medical or biological sciences. Importance will be placed on student initiative and responsibility in doing laboratory work, meeting examination deadlines, and coping with the rigorous requirements of the program.



## Biology - One Year Course

**Open to Grades:** 9, 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

**Description:** Biology is a college-prep laboratory course meeting the entry requirements of the University of California. It surveys the major academic areas of the Biological Sciences utilizing lectures, demonstrations, textbooks, and extensive laboratory experiments. Every attempt is made to make students aware of current research methods and career opportunities through the use of various visual display techniques.

## Biology AP - One Year Course

**Open to Grades:** 11 & 12

**Prerequisites:** C grade in Biology and Chemistry; completion of Chemistry is strongly recommended but may be taken concurrently; B grade in Geometry recommended

**UC A-G Certification:** Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

**Description:** Advanced Placement Biology is a yearlong college-prep course designed to prepare students for the AP Biology exam in May. Passage of the exam will earn the student college credit. The course will focus on the fundamentals of cellular and molecular biology, genetics and heredity, as well as the evolution, organization, and behavioral aspects of various biospheres found on Earth.

## Biology Honors - One Year Course

**Open to Grades:** 9 & 10

**Prerequisites:** Acceptance into class is based on middle school grades, test scores, teacher recommendations, writing sample, and/or acceptance into the QHHS IB Program which requires an application process; students must maintain a C average to remain in good standing and enrolled in honors-level classes as well as maintaining enrollment in the QHHS IB program

**UC A-G Certification:** Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

**Description:** A rigorous college-prep laboratory course meeting the entry requirements of the University of California. It surveys the major academic areas of the Biological Sciences utilizing

lectures, demonstrations, textbooks, and extensive laboratory experiments. Every attempt is made to make students aware of current research methods and career opportunities through the use of various visual display techniques.

## Biology IB HL1 and HL2 - Two Year Course

Open to Grades: 11 & 12

Prerequisites: C grade in Biology Honors and Chemistry or acceptance into the IB Program as a junior; students must have completed or be currently enrolled in Algebra 2

UC A-G Certification: Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

Description: This is a two-year course of study which will prepare students to take the IB Biology examination at the Higher Level (HL). First year units include cells and cell theory, the chemistry of life, genetics, evolution, classification and diversity, and appropriate laboratory practical hours. Through the course of the curriculum, students will develop an appreciation of the possibilities and limitations associated with science and will identify the moral/ethical, social, economic, and environmental implications of using science and technology within the context of an advanced biology class.

## Chemistry - One Year Course

Open to Grades: 11 & 12

Prerequisites: C grade in Biology; completion of concurrent enrollment in Algebra 2 or Algebra 2/Trigonometry

UC A-G Certification: Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

Description: Chemistry is a college-prep laboratory science meeting the entry requirements of the University of California. Conceptual, quantitative, and laboratory approaches are used to teach the subject.



## Chemistry AP Honors - One Year Course

Open to Grades: 11 & 12

Prerequisites: C grade in Chemistry

UC A-G Certification: Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

Description: The Advanced Placement Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Advanced Placement Chemistry is an in depth study of the chemical nature of matter, its composition and its chemical and physical changes. Mathematics are used to gain a better understanding of the chemical concepts studied. Laboratory experimentation is extensive and comprehensive, and involves the application of chemical concepts and qualitative and quantitative laboratory methods at the college level.

## Environmental Science AP - One Year Course

Open to Grades: 9, 10, 11 & 12

Prerequisites: Recommended completion of Algebra 1, Biology, and Chemistry with a "B" or better.

UC A-G Certification: Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

Description: This class will cover major environmental topics such as acid rain, biodiversity and global warming, as well as energy, the atmosphere, water, soil, human populations and waste. The course has a large laboratory and field investigation component. This allows students to learn about the environment through first hand observation. The course will help students gain a better understanding and appreciation for the world around them, while completing the recommended requirements to take and successfully complete the AP examination for college credit.

### Forensic Biology - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** C grade in Biology and Chemistry; C grade in Algebra and Geometry or concurrent enrollment in Geometry

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Description:** Forensic Biology is a college-prep course that meets the rigorous standards of a UC lab science. It builds upon the major academic themes of Biology at an advanced level, utilizing lecture, demonstration, reading of scientific expository text, and extensive student laboratory activities and



experiments in a forensic context. The course emphasizes in-depth study with problem-solving and synthesis, critical thinking, hands-on manipulation and observation, computer modeling, and career pathway foundations. Laboratory investigations will make up a majority of class time. Students will be evaluated by comprehensive written and laboratory practical examination, independent and group research

projects, through independent and group assignment of responsibilities, analytical skills, and oral and written presentations. Forensic Biology incorporates the California Biology/Life Science Standards of Cell Biology, Genetics, Ecology, and Human Physiology, as well as related California Chemistry Standards of Organic and Biochemistry and reaction rates and the California Investigation and Experimentation Standards.

### Marine Biology - One Year Course (Meets the Life Science graduation requirement)

**Open to Grades: 10, 11 & 12**

**UC A-G Certification:** Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

**Description:** This course provides a foundation for college level Physical Oceanography and Marine Biology. There will be many laboratory investigations including abiotic and biotic factors in marine ecosystems. This course will also cover marine ocean zones, the tides, chemistry of seawater, the shoreline, tide pools, vertebrae and invertebrate animals, marine mammals, bony fish, coral reefs, the open ocean, and the deep ocean.



### Physics - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** Completion of or concurrent enrollment in Chemistry and Trigonometry or equivalent; it is recommended that students taking this course have received a grade of C or better in all science and math courses or teacher signature

**UC A-G Certification:** Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

**Description:** A comprehensive physics course including approximately 25% lab-work. Suitable for students who expect to take Physics or Chemistry in college but who do not presently plan to major in either.

### Physics B AP - One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** Completion of or concurrent enrollment in Chemistry and Calculus or Mathematics IB SL; it is recommended that students taking this course have received a grade of B or better in all

science and math courses strongly recommended or teacher signature

UC A-G Certification: Meets the UC A-G [D] Laboratory Sciences requirement with a C or better grade

Description: A rigorous in-depth physics course following the subject requirement for Advanced Placement.

# Social Sciences Department

## Civics - One Semester Course

Open to Grade: 12

UC A-G Certification: Meets the UC A-G [A] History requirement with a C or better grade

Description: A one-semester course meeting the district requirements for high school graduation. The philosophy of the American political system will be studied. Examination is made of the workings of national, state, and local governments. Also considered is the political scene involving political parties, nominations, elections, and propaganda techniques. The judicial system is also examined. Current events and their implications will be part of the regular coursework. A unit in Economics will be included.

## Economics - One Semester Course

Open to Grade: 12

UC A-G Certification: Meets the UC A-G [G] Elective requirement with a C or better grade

Description: This course meets the State and district requirements for high school graduation. Economics consists of a study of classic economics with a particular emphasis on how the economy works. Included are a survey of the great economic philosophy and their theories and the development of economics literacy.

## AP U.S. Government and Politics / Honors Economics - One Year Course

Open to Grade: 12

Prerequisites: B grade in junior level history class strongly recommended

UC A-G Certification: Meets the UC A-G [A] History requirement with a C or better grade

Description: Students critically analyze and evaluate the American politics, considering how we influence government, how policymaking institutions impact us, and what we can do to reform our constitutional system. In the second semester, students analyze and evaluate economic policies as part of the Economics Honors curriculum. We prepare for the AP U.S. Government and Politics exam.



## History of the Americas IB HL 1 - One Year Course

Open to Grade: 12; Meets the Civics/Economics graduation requirement

Prerequisites: C grade in History of Americas IB HL2

UC A-G Certification: Meets the UC A-G [A] History requirement with a C or better grade

Description: War! Dictatorship! Nuclear Weapons! What are the lessons of the twentieth century? Will this century be better than the last? History of the Americas IB HL 1 examines the latest historical analyses about twentieth century wars and the rise and fall of single-party regimes. Special attention will be placed on American (hemispheric) connections to help prepare for the IB History exam at the higher level (HL).

## History of the Americas IB HL2 - One Year Course

**Open to Grade: 11**

**Special Note:** This course fulfills the United States History requirement

**Prerequisites:** C grade in United States History

**UC A-G Certification:** Meets the UC A-G [A] History requirement with a C or better grade

**Description:** The purpose of this course is to develop an awareness of history as a discipline and provide the knowledge of different interpretations of the past. The course will ensure the awareness of both continuity of change in the past events and will promote an informed empathy with others, which may contribute to international understanding. This will encourage the study of history to be a lifelong habit. The course will focus on the period of 1890 - 1990. Themes covered in this course include: Independence and nation building in Mexico; The course of the Mexican Revolution; The Great Depression in the Americas; and, Civil Rights in the Americas. This course content will cover materials and skills needed to complete Papers 1 and 3 in May of senior year. Students will also research and write the Internal Assessment Historical Inquiry in this class.

## European History AP - One Year Course

**Open to Grade: 9, 10, 11, & 12**

**UC A-G Certification:** Meets the UC A-G [A] History requirement with a C or better grade

**Description:** The AP European History course focuses on developing students' understanding of European History from approximately 1450 to the present. The course has students investigate the content of European History for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and method (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction of Europe and the world, poverty and prosperity, objective knowledge and subjective visions, states and other institutions of power, and individual and society) that students explore throughout the course in order to make connections among historical developments in different times and places.

## Human Geography AP - One Year Course

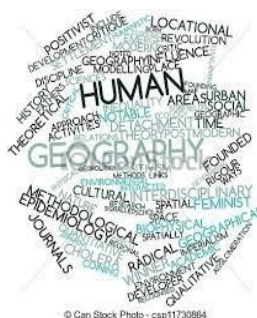
**Open to Grades: 11 & 12**

**Special Note:** This course fulfills the World History requirement

**Prerequisites:** C grade in World History and English 10 strongly recommended

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Description:** This is a one-year course that will introduce the student to the dynamic patterns of a changing world and examine the impact of globalization on the human race. Within components of culture and geography, students will study the physical environment and the fluid population that modifies it. This course will introduce and examine demographics, land use, migrations, political and linguistic cultures, rural sprawl, and urbanization, as well as global disparities in health and nutrition. Students will use the perspective of scale, location, and resource to investigate issues confronting modern society and develop higher-level problem-solving. The curriculum is designed to prepare students for the AP examination.



## Sociology - One Year Course

**Open to Grades: 11 & 12**

**UC A-G Certification:** Meets the UC A-G [G] Elective requirement with a C or better grade

**Description:** Sociology is a college-prep elective class. Students will engage in an exploration of that social science devoted to studying people and their life in groups. In this course students will examine how people behave in groups and how group interaction shapes both individual and group behaviors. Students will increase their understanding of social organizations, cultural differences and ethnicity, segregation, prejudice, and racism. Students will also learn about collective behavior, the general functions of education and marriage and the family, the function of law, and the problem of crime and delinquency. Finally, students will analyze the problem of poverty and other various social dilemmas.



## Theory of Knowledge IB - One Year Course

**Open to Grades:** 11 & 12

**Prerequisites:** Acceptance into the IB Diploma Program

**UC A-G Certification:** Meets the UC A-G [G] elective requirement with a C or better grade

**Description:** This is a one-year course offered to IB Diploma Candidates during the second semester of the junior year and the first semester of the senior year. The purpose of the class is for students to learn about the branch of philosophy known as epistemology. The students will consider the origins, methods, expression, and validity of what they know in many fields including the natural and human sciences, history, the arts and ethics. It is through the Theory of Knowledge class that IB Diploma Candidates will complete the IB Extended Essay.



## United States History - One Year Course

**Open to Grade:** 11

**UC A-G Certification:** Meets the UC A-G [A] History requirement with a C or better grade

**Description:** A conventional survey of American History studying the important ideas and concepts that have developed in our changing society. This course meets the district's requirement for graduation. Coursework utilizes textbooks, paperback books, and supplementary library materials. Emphasis is upon a sound understanding of the

principles of the heritage which have made present day American life possible.

## United States History AP - One Year Course

**Open to Grades:** 11

**Prerequisites:** A grade in regular World History and English 10 strongly recommend or C grade in World History Honors and English 10 Honors

**UC A-G Certification:** Meets the UC A-G [A] History requirement with a C or better grade

**Description:** A seminar class based on a conventional survey of American History, studying and analyzing the important ideas and concepts that have developed in our changing society. An emphasis will be placed upon a sound understanding of the principles of the heritage which have made present day American life possible. This course will utilize textbooks, paperback, and many supplementary library materials and appropriate audio visual aids for purposes of discussion. The course meets the district's requirements for graduation and will prepare the student for the Advanced Placement test for use at any participating university.

## World History - One Year Course

Open to Grade: 10

UC A-G Certification: Meets the UC A-G [A] History requirement with a C or better grade

Description: World History is a course designed to develop an understanding of the world's major cultures, their art and music, and their literature, religions, and geography. This class is designed to enrich a student's knowledge and understanding of the peoples of the world. A chronological approach to world civilization is used beginning with the ancient developing to the modern.

## World History Honors - One Year Course

Open to Grades: 9; Healthful Living must be completed in summer school

Prerequisites: Acceptance into the QHHS Pre-IB Program based on middle school grades, test scores, teacher recommendations, and writing sample; students must maintain a C average to remain in good standing.

UC A-G Certification: Meets the UC A-G [A] History requirement with a C or better grade

Description: World History is a rigorous course designed to develop an understanding of the world's major cultures, their art and music, and their literature, religions, and geography. This class is designed to enrich a student's knowledge and understanding of the peoples of the world. A chronological approach to world civilization is used beginning with the ancient developing to the modern.

## World History AP - One Year Course

Open to Grade: 9, 10, 11 & 12

UC A-G Certification: Meets the UC A-G [A] History requirement with a C or better grade

Description: World History AP is designed to be the equivalent of a two semester introductory college or university world history course. Students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

# Visual and Performing Arts Department

## AP Studio Art - One Year Course (Students choose one option: 2D Design AP, 3D Design AP, or Drawing AP)

Open to Grades: 11 & 12

Prerequisites: Completion of Art 2, Drawing 2 or Visual Imagery or AP Art teacher signatures

UC A-G Certification: Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

Description: Students will continue the study of advanced art and design skills. Experimentation with many different styles of art and media will allow the student to make an informed decision when choosing and developing a test portfolio (2D, 3D or drawing). The emphasis is self-expression and style development. This class is designed for the advanced student who wants to further develop their

art abilities independently or who plans to study art in college.

## AP Studio Art: 2D – One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** Completion of Art 2, Drawing 2 or Visual Imagery or AP Art teacher signatures

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This portfolio is intended to address two-dimensional (2D) design issues. Design consists of purposeful decision making about how to use the elements of art and the principles of design in an integrative and imaginative way. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationship) help guide artists in making decisions about how to organize an image on a picture plane in order to communicate content. Effective design is possible whether the art is representational or abstract in nature. For this portfolio students are asked to demonstrate the mastery of 2-D design through any 2D medium or process, including but not limited to collage, digital imaging, graphic design, weaving, fashion design, photography, printmaking, fabric design and painting. Samples of student work can be found at [apcentral.collegeboard.com/studio2D](http://apcentral.collegeboard.com/studio2D).

## AP Studio Art: 3D – One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** Completion of Art 2, Drawing 2 or Visual Imagery or AP Art teacher signatures

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This portfolio is intended to address sculptural issues. Design consists of purposeful decision making about how to use the elements of art and the principles of design in an integrative and imaginative way. In the 3D portfolio, students are requested to demonstrate the understanding of design principles (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale and occupied/unoccupied space) as they relate to the integration of depth and space, volume and surface. The principles can be articulated through the visual elements (mass, volume, color/light, form, plane, line, texture). For this portfolio students are asked to demonstrate the mastery of 3D design through any three-dimensional approach, including but not limited to ceramics, architectural models, instillation, figurative or nonfigurative sculpture, glass work, metal work, 3-D fabric/fiber arts and assemblage). Samples of student work in the 3-D design portfolio can be found at [apcentral.collegeboard.com/studio3D](http://apcentral.collegeboard.com/studio3D).

## AP Studio Art: Drawing – One Year Course

**Open to Grades: 11 & 12**

**Prerequisites:** Completion of Art 2, Drawing 2 or Visual Imagery or AP Art teacher signatures

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This portfolio is intended to address a very broad interpretation of drawing issues and media. Rendering of form, light and shade, line quality, composition, the illusion of depth, surface manipulation and mark-making are drawing issues that can be addressed through a variety of means, which could include but are not limited to mixed-media, printmaking and painting. Drawing competence may be demonstrated through observational and abstract works. The range of marks and the organization of those marks as well as the media used are endless. Student samples can be found at [apcentral.collegeboard.com/studiodrawing](http://apcentral.collegeboard.com/studiodrawing).

## Art History AP / IB - One Year Course

**Open to Grades: 10, 11 & 12**

**Prerequisites:** B grade in English strongly recommended

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

grade

**Description:** This is a rigorous and comprehensive course which builds cultural and historical backgrounds around the major art works of influential Global civilizations. In addition to the emphasis on the cultural and historical perspective, students will participate in “hands-on” projects and attend field trips to Los Angeles area museums designed to enhance and broaden the material in the text. The curriculum is designed with extended expectations to prepare for the AP or IB Art History exam given during the spring semester.

## Visual Arts HL1 & HL2 - Two Year Course

**Open to Grades:** 11 & 12

**Prerequisites:** Acceptance to the IB Program or permission by Mrs. Miller; Journal required

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This is a two-year course that will prepare the student to take the IB Art and Design examination at either the Standard (SL) or Higher Level (HL). The aim of the course is to provide students with opportunities to develop their creative, critical, and imaginative faculties. It will facilitate development of a visual awareness and critical perception of the arts, including historical and cultural contexts. Students will study the elements of art and the principles of design as well as research/non-studio art studies.

## Intro to Film and Video Theory - One Year Course

**Open to grades:** 10

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better

**Description:** This introductory course of the QHTV Academy Pathway provides instruction and training for students interested in careers related to video and film production. It enhances written, verbal, visual composition skills necessary for understanding all the elements of film making art and craft. Students will continue explore various aspects of the media/entertainment industry as it relates to potential career selections, as well as educational applications and personal development skills. Students who achieve competency in this course will develop knowledge and skills in principles and elements of video/film production, both from the performance and technical aspects, and will be prepared to move on to the second/intermediary class of the QHTV Academy Pathway, Digital Video Production and Broadcasting.

## Multimedia Contemporary Design 1 - One Year Course

**Open to Grades:** 9

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This one year course is an integration of 21st Century communication skills and artistic proficiency using contemporary media arts as a focus. Emphasis will also be placed on introducing the student to art, design, and the technologies of this new media; using text, graphics, photographs, animation. Students will plan, create, and edit their multimedia productions. Students learn color management, graphic design, typography, and layout design. Students will engage in the process of researching and critiquing other forms of media, learning time management skills. Students will finish with a portfolio that can be used to demonstrate their abilities for college entrance or employment in the media field. This integrated curriculum forms a solid groundwork which students may build upon in Multimedia Contemporary Design II.

## Multimedia Contemporary Design 2 - One Year Course

**Open to Grades:** 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Students will be immersed into a world of Multimedia Applications, exploring the fundamentals of the use of appropriate programs (Photoshop, After Effects, InDesign, Premier, Illustrator, Blender, etc.) and their application in Video and Business Marketing.

## Digital Video Production & Broadcasting- One Year Course

**Open to grades:** 11

**Prerequisites:** Completion of Intro to Video Theory

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better

**Description:** In this, the second/intermediary course of the QHTV Academy Pathway students will take video production and broadcast to the next level. Using digital A/V tools they will produce multiple media and news projects expressing their creative process and demonstrating their knowledge and understanding of pre-production, production, and post-production in the areas of video and broadcast media. Integrated throughout the course are career preparation standards such as communication skills, interpersonal skills, problem solving and other employment skills. Students who achieve competency in this course will be prepared to move on to the third/capstone class of the QHTV Academy Pathway, Advanced Art of TV and Video Production.

## Advanced Art of TV and Video Production- One Year Course

**Open to grades:** 12

**Prerequisites:** Completion of Intro to Video Theory

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better

**Description:** This the third/capstone course of the QHTV Academy Pathway course provides instruction and training for students interested in careers in the video, broadcast, and film production industries. Students experience both the creative and technical aspects of film making and video production in conjunction with learning about historical and contemporary traditions and conventions. Students will explore different aspects of the media and entertainment industry as it relates to potential career selections. Students achieving competency in this course will be prepared to enter a film or broadcast journalism course of study at the college level or be prepared for entry level employment in those fields.

## Art 1 - One Year Course

**Open to Grades:** 9, 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This is the introductory course for the art program. Students will develop the fundamental skills needed for a solid foundation in the visual arts. Students will be introduced to various 2-D and 3-D media and techniques associated within the context of the elements of art and principles of design. Students will be provided the opportunity to use a wide variety of materials. The structure of the class will consist of guided exercises, class projects, group discussion, and critiques. Students will be exposed to historical backgrounds and cultural influences of art.

## Art 2 - One Year Course

**Open to Grades:** 10, 11, & 12

**Prerequisites:** C grade in Art 1 or Drawing 1

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Students are introduced to advanced 2D and 3D projects involving many of the materials and methods taught in Art 1, emphasis being placed on the elements



of art and the principles of design. This course is designed to gradually take the student from dependency to independent artist, taking on more responsibility for choices regarding their studio work.



## **Ceramics 1 - One Year Course**

**Open to Grades: 10, 11, & 12**

**Prerequisites: C grade in Art 1 or Drawing 1**

**UC A-G Certification: Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade**

**Description:** Ceramics 1 is an introductory course that allows students to use clay to create exciting useful and artistic projects. Classes will be taught in modules that will include hand building such as slab work, coil, pinch, and mold-making techniques. Decorating techniques that apply the elements of art and principles of design will be used to enhance or embellish the ceramic artwork. A wide variety of projects are offered including introductions to ceramic design across other cultures.

## **Ceramics 2 - One Year Course**

**Open to Grades: 11 & 12**

**Prerequisites: C grade in Ceramics 1**

**UC A-G Certification: Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade**

**Description:** Ceramics 2 is an advanced level course. It addresses the California State Visual Arts Standards, Artistic Perception, Creative Expression, Aesthetic Valuing, and Interdisciplinary Connections and understanding ceramics in its historical and cultural context. The use of equipment, materials, and techniques build skills pertinent to advanced ceramic processes. The mastery of clay as a fine art medium is emphasized.

## **Drawing 1 - One Year Course**

**Open to Grades: 9, 10, 11, & 12**

**UC A-G Certification: Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade**

**Description:** Drawing 1 is a beginning-level course. It addresses the elements of art and principles of design using a variety of drawing materials and techniques. The student will create works of art using pencil, ink, charcoal, colored pencils, and more. It is a great introduction to the world of art.

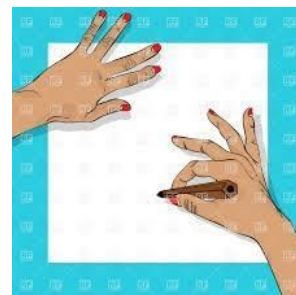
## **Drawing 2 - One Year Course**

**Open to Grades: 10, 11, & 12**

**UC A-G Certification: Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade**

**Prerequisites: C grade in Drawing 1**

**Description:** Drawing 2 is an advanced drawing course designed to develop the student's drawing skills further utilizing the skills learned in Drawing 1.



## **Painting 1 - One Year Course**

**Shop Card: \$20.00 per year Open to Grades: 10, 11, & 12**

**Prerequisites: C grade in Art 1 or Drawing 1**

**UC A-G Certification: Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade.**

**Description:** Students are introduced to painting materials and concepts, technique exercises, color theory, and design.



## Painting 2 - One Year Course

**Open to Grades:** 11 & 12

**Prerequisites:** C grade in Painting 1

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Students will continue to explore a variety of painting materials, techniques, and concepts. Individual styles will be encouraged as the student progresses.

## Sculpture - One Year Course

**Grades:** 10, 11, 12

**Prerequisite:** C or better in Art 1 or Drawing 1

**Description:** Sculpture is a studio course designed to give students experience in 3D art through various mediums. Students will be introduced to different methods, processes and techniques for creating original sculpture. By applying knowledge of Elements and Principles of Design, students will use various tools, ideas and problem solving techniques as standards for creation and evaluation.

## Music Appreciation - One Year Course

**Open to Grades:** 9, 10, 11 & 12

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This course explores the historical and social contexts of music, as well as the experience of being a musician, no talent required. Students will study a spectrum of musical styles and genres, ranging from the earliest Western music and classical music to the most popular genres of the 20<sup>th</sup> Century in the United States. Students will gain tools for communicating with others about all styles of music while evaluating what makes music universally helpful in trying times.

## A Cappella Choir - One Year Course

**Open to Grades:** 10, 11, & 12

**Prerequisites:** By audition only; placement requires instructor signature

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This course is an intermediate level large vocal group.

Placement is by audition and requires at least one year of prior choral experience. Students will continue to develop their skills in music literacy and vocal technique, while learning to express emotion through music in a variety of styles, ranging from Renaissance and Romantic music to Broadway and Contemporary A Cappella. This is a performance-intensive ensemble, with several concerts, festivals and community events per semester, as well as possible travel.



## Chamber Singers - One Year Course

**Open to Grades:** 10, 11, & 12

**Prerequisites:** By audition only; placement requires instructor signature

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This course is a high level small vocal group that is held either 0 or 7th period. Placement is by audition, and students must be co-enrolled in another choir unless academic exemption is granted by instructor. Students will continue to develop their skills in music literacy and vocal technique, and will learn the accountability and fast-paced learning style of a professional musician. This ensemble performs challenging choral music with an emphasis on styles designed for smaller groups of singers, sometimes with one singer per part. This is a performance-intensive ensemble, with several concerts, festivals and community events per semester, as well as possible travel.

## Mixed Chorus - One Year Course

**Open to Grades:** 9, 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This course is a beginning level vocal group. No experience is necessary. Students will learn music literacy and vocal technique as well as teamwork and artistry. This course introduces students to choral music representing a variety of cultures and traditions, with an emphasis on Broadway and folk songs. There are 1-2 required performances per semester, and a small number of after-school rehearsals will be required just prior to these concerts.

## Choral Ensemble (Vocal Jazz) - One Year Course

**Open to Grades:** 10, 11, & 12

**Prerequisites:** By audition only; placement requires instructor signature

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This course is a high level performing group open to vocalists as well as students interested in piano, guitar, bass, and drums. Placement is by audition, and it is recommended that students be co-enrolled in another music course. Students will continue to develop their skills in music literacy through advanced rhythms and harmonies, with a special focus on learning jazz chords and improvisation techniques. Students will also learn about sound technology, microphone technique and how to lead a band. This course focuses on a variety of styles for both solo and ensemble Vocal Jazz performance, including blues, swing, ballad, funk, and bossa nova. This is a performance-intensive ensemble, with several concerts, festivals and community events per semester, as well as possible travel.

## Dance Fine Art - One Year Course (Elective Credit Only)

**Open to Grades:** 9, 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [F] Fine Art requirement with a C or better grade

**Description:** Designed for all levels, beginner through the advanced dancer. This course will include many aspects of dance techniques, a variety of dance styles, and choreography training.



## Drama 1 - One Year Course

**Open to Grades:** 9, 10, 11, & 12

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better

grade

**Description:** Provides students with skills used in drama through participation in classroom activities, such as improvisation, pantomime, vocal technique, monologue, and scene work. Also includes study of major plays and playwrights, historical periods, and elements of dramatic production.



### **Drama 2 - One Year Course**

**Open to Grades:** 10, 11, & 12

**Prerequisites:** C grade in Drama 1

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Drama 2 is a continuation of Drama 1, providing students with more in-depth study of concepts and techniques previously learned. Students prepare character analyses and perform scenes and monologues. Students will also study theatrical styles and genres, as well as directing techniques.

### **Drama 3 & 4 - One Year Course**

**Open to Grades:** 11 & 12

**Prerequisites:** C grade in previous Drama 2 or 3

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade (Drama 3 only)

**Description:** Drama 3 and 4 extend the skills learned in Drama 1 and 2 with further emphasis on directing and production before an audience.

### **Stagecraft - One Year Course**

**Open to Grades:** 9, 10, 11, & 12

**Description:** Stagecraft will examine the relationship between the performing arts and the technical requirements necessary to undertake a theatrical production. Study will include play and performance analysis, scene design, set construction, lighting, sound, properties, house management, and employment opportunities. Additionally students will gain poise, self-confidence and learn to work cooperatively as a member of a team charged with the responsibility of providing technical support for theatrical productions.



### **Stagecraft (Advanced) - One Year Course**

**Open to Grades:** 10, 11, and 12.

**Prerequisite:** C grade in Stagecraft

**Description:** Advanced Stagecraft is a continuation of Stagecraft, providing students with more in-depth study of concepts and techniques previously learned. Higher level work is expected throughout, in all phases of the course. Leadership roles should be undertaken, and more emphasis is placed on responsibility, time management, and successful task completion.

### **Theatre Production - One Year Course**

**Open to Grades: 9, 10, 11 & 12**

**Prerequisite:** Audition and permission of instructor; contract must be signed by a parent prior to entry into the class; previous acting/technical theater experience preferred

**Description:** The Theater Production class consists of all the actors cast in the school play for the semester, as well as crew members in set construction, props, lights, sound, costume, and make-up. Classes may not meet every day, but may be longer in duration than a regular class. Grades will be based on the successful completion of the performance/technical assignment given. Students will be expected to keep a journal as well as read the play. A test will be given at the conclusion of the project. Regular, punctual attendance is mandatory, and classes will include some evenings.

## Concert Band - One Year Course

**Open to Grade: 9, 10, 11 & 12**

**Prerequisites:** Intermediate proficiency on a wind instrument

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Designed for the preparation and performances of concert and marching music. Public performances (concerts, music festivals, parades, field shows) are required of all members. It is recommended that students have more than basic proficiency on their instrument. Grade 1 - 3 repertoire will be studied and prepared for performance.

## Jazz Ensemble - One Year Course

**Open to Grades: 10, 11, & 12**

**Prerequisites:** Advanced music reading skills are required; audition and/or special permission of director; students must have completed a year of Concert Band with a B- or better grade.

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This is a course in understanding and performing music encountered by the modern commercial musician including jazz, pop, and rock. Public performances and festivals are required of all members. Instrumentation open to a Big Band setting: trumpet, trombones, saxophones, guitar, string or electric bass, piano, and drums.

## Marching Band - One Semester Course (Fall 7<sup>th</sup> Period)

**Open to Grades: 9, 10, 11 & 12**

**Prerequisites:** Teacher signature; concurrent enrollment in Concert Band, Symphonic Band, Jazz Band, Percussion, or Show Corps required unless permission is given by director; students are required to attend summer band camp; students are required to attend all public performances (Football games, parades, competitions) each semester.

**Description:** This course is designed for students who play a band instrument or perform in Colorguard, and are interested in the total range of band music and activities. Students will improve instrumental skills as well as acquire skills in precision teamwork, body carriage, musicianship, and showmanship.



## Percussion Ensemble - One Year Course

**Open to Grades: 9, 10, 11 & 12**

**Prerequisites:** Teacher signature; by audition only.

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** This course is designed for percussionists. Students will develop technique on various percussion instruments including: marching percussion, mallet keyboards, and orchestra/concert percussion. Skills to be developed include literacy, rhythmic accuracy, and dexterity.

## Show Corps - One Year Course

**Open to Grades:** 9, 10, 11 & 12

**Prerequisites:** Teacher signature; by audition only.

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Students should be concurrently enrolled in P.E. Drill or Marching Band. The class is designed for students in the Colorguard (Fall) or Winterguard (Winter/Spring). Students will learn dance and equipment technique (flag, rifle, etc.) and will be a part of the marching band.

## String Orchestra - One Year Course

**Open to Grades:** 9, 10, 11, & 12

**Prerequisites:** Basic to intermediate proficiency on a violin, viola, cello or string bass.

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Designed for the preparation and performances of concert music. Public performances (concerts & music festivals) are required of all members. It is suggested that students have more than basic proficiency on their instrument. Grade 1 - 4 repertoire will be studied and prepared depending on ensemble skill.



## Symphonic Band - One Year Course

**Open to Grades:** 10, 11, & 12

**Prerequisites:** Intermediate to advanced proficiency on a wind instrument; completion of one year of Concert Band (or similar experience) with a B- or better grade, or permission from director.

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Designed for preparation and performance of intermediate concert and marching music. Public performances (concerts, music festivals, parades, field shows) are required of all members. Grade 2 - 4 repertoire will be studied and prepared for performance.

## Wind Ensemble – One Semester Course 2<sup>nd</sup> semester (Winter/Spring 7<sup>th</sup> Period)

**Open to Grades:** 9, 10, 11 & 12

**Prerequisites:** By audition ONLY; Intermediate to Advanced proficiency on a wind instrument.

**UC A-G Certification:** Meets the UC A-G [F] Visual/Performing Arts requirement with a C or better grade

**Description:** Designed for preparation and performance of concerts and festivals. Public performances (concerts & music festivals) are required of all members. Advanced Wind Ensemble literature will be studied and performed. This class is by audition only. Grade 3 - 5 repertoire will be studied and prepared for performance.



# APPENDIX

**International Baccalaureate 44**

**Math Course Grades & Sequencing 45**

**Virtual Academy/CTE Courses 49**

## International Baccalaureate Program

## Recommended Four-Year Course of Study for the IB Diploma

**Summer School before 9<sup>th</sup> Grade:** Healthful Living

### **Grade 9**

- English 9 Honors
- French 1 Honors or Spanish 1 Honors
- Algebra 1, Geometry or Algebra II, or Algebra II/Trigonometry in rare cases
- Biology Honors
- World History Honors, European History AP, or Computer Science Principles AP
- PE 1

**March/April of Grade 9:** See Counseling regarding PE 2 – to be taken in Grade 10 via Virtual Academy.

### **Grade 10**

- English 10 Honors
- French 2 Honors or Spanish 2 Honors
- Geometry, Algebra II, Honors Algebra II/Trigonometry, or Calculus AB AP in rare cases
- Chemistry
- AP Elective: Art History AP (counts as a fine art), Human Geography AP, Computer Science AP (if not taken freshman year)
- PE 2 taken through AAV Virtual Academy
- Fine Art to be taken if PE taken in summer school and if taking European History AP or Human Geography AP

### **Grade 11**

- History of the Americas IB HL 2
- English IB HL 1
- French 3 Honors or Spanish 3 Honors
- Mathematics IB SL or appropriate math class
- Biology IB HL1
- IB 6<sup>th</sup> Subject Option: Choice of Visual Arts IB HL or SL, Music IB HL or SL, Theatre Arts IB HL or SL, Psychology IB SL, Art History IB SL or additional IB class (Note that Visual Arts IB SL and HL are 2-year courses; note that Theatre Arts IB SL and HL are 2-year courses)
- \*Theory of Knowledge, semester two

### **Grade 12**

- ToK first semester
- English IB HL2
- French IB SL or Spanish IB SL
- Math IB SL if not taken in grade 11
- Biology IB HL2
- History of the Americas IB HL1
- IB 6<sup>th</sup> Subject Option: Choice of Visual Arts IB HL or SL, Music IB HL or SL, Theater Arts IB HL or SL, Psychology IB SL, Art History IB SL or additional IB class. If 6<sup>th</sup> Subject Option is completed in junior year, student may take an elective.

IB courses designated HL are two year courses. IB courses designated SL are one year courses. IB examinations are taken at the end of each course. Students may take two SL examinations in their 11<sup>th</sup> grade year. This is strongly encouraged.

\*ToK to be offered after school on Wednesdays, second semester.

# Math Course Sequencing

The prerequisite course listed with each course description in the course description section is the strongly recommended background necessary for student success at that level. Although the courses

do have ability levels, the courses are not “tracked” as students do move up and down levels during their high school education.

We strongly encourage students to maintain a reasonable balance among academic course load, extracurricular activities, and personal time to contribute to their social and emotional well-being. It is extremely important for students and parents to make an informed decision during the scheduling process regarding which course and level is most appropriate for the student.

Due to a variety of factors, the selection of a course and level should be considered a year-long commitment. In order to maintain class sizes that are equitable for all students, it has become very difficult to switch levels once the schedule has been completed. As a result there can be no guarantee that a space will be available in another course or level during a *preferred* period.

Over the next couple of pages, you will find examples of possible math sequences. The charts are set up in the following manner.

Grade levels are across the top. Under each grade level is a math class. After the high school math course, there are possible earned grades that then direct you to the appropriate next level math class.

Look below at the first chart and you will see that 8<sup>th</sup> grade math leads to Algebra 1. There isn't a grade listed since all regular education students will start in Algebra 1. If a student struggled in 8<sup>th</sup> grade math, and/or earned a C or lower grade, they should consider taking the Algebra 1 Support class. In fact, if a student earned a D or F in 8<sup>th</sup> grade math and/or scored a Below Basic or Far Below Basic on their math CST, they will automatically be placed in the Algebra Support class as their elective.

Following to the next year, if a student earned a D or F in Algebra 1, for their 10<sup>th</sup> grade class, they will be placed in CAHSEE Prep/Algebra 1. If a student earned a C or better in Algebra 1, they would then go to Geometry. Again, if it was a low C and/or they struggle with math, and/or scored a Below Basic or Far Below Basic on their Algebra CST, they will take the Geometry Support class as their elective.

## Common Course Sequences for the Mathematics Core Curriculum since 2010-2011

8 <sup>th</sup>	9 <sup>th</sup>		10 <sup>th</sup>		11 <sup>th</sup>		12 <sup>th</sup>
Grade 8 Math	Algebra 1 support	D, F	Algebra 1 and Math Intervention	C, D	Geometry	C	No math
							Algebra 2
	Algebra 1	C	Geometry	C	Algebra 2	C	No math
			Geometry and Math Intervention	D			Math Studies IB SL
							Intro to Statistics
						D, F	

8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
<b>Grade 8 Algebra</b>	Geometry	A Honors Algebra 2/Trig	A Mathematics IB HL 1 /AP Calculus BC	Mathematics IB HL 2
			B Mathematics IB SL	A AP Calculus BC
				B AP Calculus AB
				C Calculus
				C AP Statistics
				D Math Studies IB SL
			A AP Calculus BC	C AP Statistics
				D Math Studies IB SL
			B AP Calculus AB	B AP Calculus BC
				C AP Statistics
				D Math Studies IB SL
			C AP Statistics	C Calculus
				D Math Studies IB SL
			C Calculus	B AP Calculus AB
				C AP Statistics
				D Math Studies IB SL
			D Math Studies IB SL	B AP Statistics
				C Calculus
				F Intro to Statistics
		C Algebra 2	B Trig/Pre-Calculus	B AP Calculus AB
		D (Algebra 2 support)		C Calculus
				C Math Studies IB SL
				D Intro to Statistics
			B AP Statistics	B Trig/Pre-Calculus
				C Math Studies IB SL
			C Math Studies IB SL	C AP Statistics
				D Math Studies IB SL
			C Math Studies IB SL	F Intro to Statistics

8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Grade 8 Geometry	Algebra 2	Trig/Pre-Calculus	Mathematics IB HL 1 /AP Calculus BC	Mathematics IB HL 2
			Mathematics IB SL	AP Calculus BC
				AP Calculus AB
				Calculus
				AP Statistics
				Math Studies IB SL
				Intro to Statistics
			AP Calculus BC	AP Statistics
				Math Studies IB SL
			AP Calculus AB	AP Calculus BC
				AP Statistics
				Math Studies IB SL
			AP Statistics	Calculus
				Math Studies IB SL
				Intro to Statistics
			Calculus	AP Calculus AB
				AP Statistics
				Math Studies IB SL
				Intro to Statistics
			Math Studies IB SL	Intro to Statistics

52



# Academies of Antelope Valley / CTE

**Virtual Academy (AAV)** provides online courses for students who are residents of the Antelope Valley Union High School District or adjacent school districts. The use of digital curriculum enables flexible scheduling options for students. Highly qualified teachers provide specialized instruction in core subjects, electives, and career technical education courses to meet student needs. Students complete lessons and activities from any computer with internet access, have access to both virtual and on-site tutoring, and may take courses to supplement their traditional schedule or enroll as a full-time virtual school student. Students enrolled at QHHS may take up to 2 classes at AAV and retain their QHHS student status. AAV is NOT a credit retrieval program. QHHS students may not take classes at AAV that they have failed in the past

**Career Technical Education (CTE)** program courses provide students with the opportunity to explore their career interests while they prepare themselves for postsecondary educational options including private schools, community colleges, and 4-year colleges and universities.

CTE elective classes are taught using project-based learning and hands-on activities that make the academic concepts relevant to the real world while putting the theoretical content into practice. Many classes provide college credit through articulation with courses at Antelope Valley College, and many meet the UC system's A-G requirement.

Classes are offered at the high school campuses, with the exception of Fire Technology. Online classes are also available this school year. CTE courses offer additional courses that students can take if they meet eligibility requirements and have their counselor approval. Students must provide their own transportation. Please see your counselor for more information.

Below are descriptions of CTE courses that students can cross-enroll in. Students must pay close attention to any discrepancy that may exist between the QHHS and the other campuses bell schedules as students will typically attend four periods on the QHHS campus and then leave at lunch to travel to the campus hosting the CTE course.

## **Automotive Repair and Service Occupations**

**One-Year Course:** 20 Credits; Double-Period Course

**Open to Grades:** 11 & 12; Quartz Hill High School

**Description:** This course provides instruction and training for students interested in careers related to the auto repair industry. Students who achieve competency in this course will develop knowledge and skills in four major areas of instruction and training: engine overhaul and rebuilding, automotive electrical systems; automotive tune-up and emission devices; and automotive brakes and chassis systems, and will be prepared for entry-level employment. Entry-level positions include auto technician.

## **Dental Assisting**

**One-Year Course:** 20 Credits; Double-Period Internship Course

**Open to Grades:** 11 & 12; Antelope Valley High School

**Description:** This course provides instruction and training for students interested in careers related to the dental profession. Students who achieve competency in this course will develop knowledge and skills in basic dental office skills, anatomy, physiology, dental materials and preventative dental care. Students successfully

completing this class could enter a dental radiography component and/or a certified dental assistant program and will be prepared for entry-level employment. Entry-level positions include dental assistant.

## **Fire Technology**

**One-Year Course:** 10 Credits

**Open to Grades:** 11 & 12; through application process only; North County Training Center in Palmdale

**Description:** The Fire Technology courses provide instruction in both the basic and advanced techniques of firefighting, including the various levels of fire service administration, knowledge of fire service apparatus, knowledge of fire service equipment, the ability to use extinguishing agents, understanding of fire protection systems and equipment, understanding of fire behavior, types of building construction related to fire services, proper use of personal protective equipment, proper use of ropes and knots, proper use of tools, proper use of hoses, nozzles, and fittings, the proper use of ladders, proper use of search and rescue techniques, ventilation related to fire service, correct tactics and strategy for firefighting, property conservation and salvage methods, proper handling of hazardous materials, and cardiopulmonary resuscitation techniques. Students need to obtain their CPR Certification and meet certification requirements for use of AED.

## **Medical Clinical 1 (take concurrently with Medical Science 1)**

**One-Year Course:** 10 Credits

**Open to Grades:** 11 & 12; through application process only; Palmdale High School; 6<sup>th</sup>/7<sup>th</sup> periods only

**Description:** This course provides instruction and training for students interested in careers in the health care professions. Students who achieve competency in this course will develop knowledge and skills required for entry into the health care occupations and meet the needs of the advanced clinical program. After initial required medical subjects, students will spend two days per week in clinical sites developing clinical skills. Successful students will receive a certificate listing the proficiencies which they have completed during the course. Course provides certification for BLS CPR, Advanced First Aid, and phlebotomy certification, and will be prepared for entry-level employment.

## **Medical Science 1 (taken concurrently with Medical Clinical 1)**

**One-Year Course:** 10 Credits

**Open to Grades:** 11 & 12; through application process only; Palmdale High School; 6<sup>th</sup>/7<sup>th</sup> periods only

**Description:** This course provides instruction and training for students interested in careers in the health care professions. Students who achieve competency in this course will develop knowledge and skills required for entry into the health care occupations and meet the needs of the advanced clinical program. Topics of study include structure and function of major body systems, vital signs as health indicators, weights and measures, nutrition, and patient observation and reporting, and will be prepared for entry-level employment.

## **Online Classes**

The following classes may be offered online during the 2017-2018 school year. They are one year long and are worth 10 elective credits. Students will meet on campus three times during the school year, and must provide their own transportation. To enroll in an online class, please speak with your school site counselor and your site's CTE Counselor.

## **Emergency Medical Technician (EMT) ON-LINE ONLY**

**Open to Grade:** 12 only; students must meet eligibility criteria; Virtual Academy

**Description:** EMTs provide emergency medical and trauma care in the pre-hospital and emergency room setting. The course curriculum was developed by the National Highway and Traffic Safety Administration and is a Los Angeles County approved Emergency Medical Technician course. This course is a combination of theory lecture and discussion, and skills lab. Students will also complete clinical rotations with local

ambulance companies or at a local hospital. Successful completion makes student eligible to sit for the National Registry of EMT exam.

## **Contemporary Study of Business**

**Description:** This course is designed to introduce students to the world of business. The emphasis of the course is on how business changes to remain competitive in an ever changing global society. Major topics include business communications, the basic economic question and decision-making by consumers, economic systems, marketing goods and services, finance, and human resources. (C/N 04134)

## **Medical Terminology**

**Notes:** One-semester class, 5 credits

**Description:** The Medical Terminology Online Course: "Terms for Practice", is designed to facilitate learning and comprehension of the basics of medical terminology in relation to each system of the body. This online course combines an interactive study experience, as well as learning at your own pace. Students will learn to use proper terminology and spelling for major pathological conditions. Can only be taken in conjunction with Level 2 Health Careers Academy. (C/N 19971)

## **Nursing Careers**

**Description:** This course prepares the student to work as an entry-level Patient Care Technician in a clinic, hospital, nursing home or long-term care facility. Students will learn to check vital signs, CPR and First Aid, assist in medical examinations, perform electrocardiograms (EKGs), basic laboratory procedures, and phlebotomy as well as learn to provide basic patient care including bathing, feeding, toileting and ambulating patients. Upon successful completion of the course the student will also be eligible to take the National Health Career Association exam to become a Certified Patient Care Technician (CPCT). Patient Care Technicians (PCT) care for injured, physically and mentally ill, disabled or infirm patients in hospitals, nursing homes, assisted living, physicians' offices or long-term care facilities. They perform routine tasks under the supervision of doctors, nurses and other medical professionals in monitoring the patient's condition and providing basic patient care. The PCT plays a vital role in the healthcare delivery team since they often have more direct patient contact than any other team member including doctors and nurses.

## **International Business**

**Notes:** 10 Credits – must be concurrently enrolled in the International Business Practicum Course

**Description:** International Business is a course that will analyze issues of international trade, and explain how the U.S. economy affects, and is affected by, economic forces beyond its borders. IB is designed to provide students with an in-depth understanding of international business and global trade. Students will develop knowledge in the cultural, social, political, legal and economic factors and conditions that interact to create the international business environment. Concepts covered include: economic systems, resources, industries, technology, balance of payments and foreign exchange. Cultural and social factors such as language, education, religion, values and customs, and social relationships will be examined as related to conducting business in a global economy. Furthermore, studies will include foreign government structures, political stability and government policies toward business. It will enable students to understand fundamental economic and business ownership concepts and terms, microeconomics and macroeconomics and their relationship to small business, key elements involved in owning a business and the implementation of marketing and business plans, economic systems, international relations and the global economy, measurement of economic performance, management of human resources, the importance of the international economy, methods of

growth in the U.S. economy, and will enable students to develop critical thinking and economic decision-making skills. The course focuses not only on the historical and the present economic markets, but asks students to forecast the effects that policy prescriptions will take in the future. Through the study of economic topics, students will develop critical thinking skills necessary to apply economic policies to the real world, to analyze past and current problems, and those of tomorrow. Students will research economic issues that exist in their community as well as worldwide. (C/N 19765 and 19764)

**Body Systems and Disorders**

**Open to Grades: 9, 10, 11, 12** 10 Credits

**Description:** This course focuses on human anatomy and physiology, normal function of body systems, associated pathologies, and medical interventions. Emphasis is on providing students with a thorough understanding of body systems and their interrelationships. The course includes advanced medical terminology as applied to diseases, disorders, medical interventions and body systems.

As part of instruction, this course reinforces skills in reading, writing, speaking, listening, and mathematics and requires their application in workplace situations. Integrated throughout the course are foundation standards, which include communication, ethics, interpersonal/team skills, critical thinking and problem solving, safety, technology, and other essential skills. Students are given opportunities to demonstrate personal qualities, including responsibility, self-confidence, and self-management. (C/N 19860)

**Multimedia Contemporary Design 1**

**Open to Grades: 9, 10, 11, 12** 10 Credits

**Description:** This course will introduce students to effective communication approaches for the 21<sup>st</sup> Century; going beyond the simple written and oral communication to interactive multimedia using text, graphics, animation, video, and sound. Animation in 2-D format and its application in current industries will be an integral part of the class. Introduction to 3-D format background and character development will be incorporated, as well. Focus will also be placed on introducing the student to art, design, and the technologies of this new media. This integrated curriculum forms a solid groundwork from which students may build upon in Multimedia Contemporary Design II and is the first sequence of classes in the Digital Design and Engineering Academy. This multimedia class has been structured to reflect the California Career Technical Education Standards and the Common Core State Standards. (C/N 02089)

**Multimedia Contemporary Design 2**

**Open to Grades: 10, 11, 12** 10 Credits

**Prerequisite:** Multimedia Contemporary Design 1

**Description:** The class offers knowledge and skills related to the impact of photography and advance photography manipulation. Students will design and create graphic designs for all types of industries. Explore the world of 2-D and 3-D computer animation, including time and space in the digital 3-D environment, animation concepts and techniques in 3-D computer space. Students develop advanced skills in creating interactive media for web sites and publications for print and electronic distribution. Students work individually and in teams to complete and present projects. Completion of this course may prepare students for industry certifications. In addition students will learn how to build interactive programs for simulation, training, education, and entertainment. In the final stage of the course students are given experience in project management and marketing of more complex multimedia design projects thus providing skills for supervisory level jobs. This multimedia class has been structured to reflect the California Career Technical Education Standards, the California Challenge Standards for Visual Arts, and the National Education Technology Standards. (C/N 02091)