



CENTRAL VALLEY

HIGH SCHOOL

Home of the Hawks

2016-2017

COURSE SELECTION GUIDE

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NONDISCRIMINATION IN DISTRICT PROGRAMS AND ACTIVITIES

The CUSD Governing Board is committed to equal opportunity for all individuals in education. Central Valley High School's programs and activities are free from discrimination based on gender, sex, race, color, religion, ancestry, national origin, ethnic group identification, marital or parental status, physical or mental disability, sexual orientation or the perception of one or more of such characteristics.

CENTRAL VALLEY HIGH SCHOOL

Soaring to New Heights through

This course selection guide has been designed to assist you in creating an academic plan for high school. You are urged to read this guide carefully and seek advice from parents, teachers, counselors and other staff members.

HIGH SCHOOL GRADUATION REQUIREMENTS

Graduation requirements are set by the CUSD Board of Trustees. Five (5) units are awarded to students who earn a grade of A, B, C, or D in coursework.

MINIMUM COURSE REQUIREMENTS

SUBJECT AREA:	CREDITS
ENGLISH	40
MATHEMATICS.....	20
Algebra I or Mathematics 1 (or higher) (10 credits)	
Other Math (10 credits)	
SCIENCE.....	20
Life Science (10 credits)	
Physical Science (10 credits)	
SOCIAL SCIENCE.....	30
World History (10 credits)	
U.S. History (10 credits)	
American Government (5 credits)	
Economics (5 credits)	
FINE ARTS – OR – MODERN LANGUAGE.....	10
ELECTIVE CLASSES.....	90
TOTAL CREDITS REQUIRED	230 CREDITS

ELIGIBILITY FOR ATHLETICS AND EXTRACURRICULAR ACTIVITIES

Eligibility is based on grades received at the end of each quarter. To be eligible, students must have:

- A “C” average (2.0) for all classes (total G.P.A.)
- No more than one “F”
- An Incomplete (I) counts as an “F” for eligibility purposes.
- Students may use a one-time probationary period to become eligible. Must meet probation requirements.

Central Valley Graduation Requirement Checklist

Five (5) credits are awarded to students who earn a grade of A, B, C, or D in each semester of a course.

In Order to be eligible for a University and meet A-G requirements **C's or better are required. D's do NOT count towards A-G requirements for the University.

ENGLISH (40 credits)

English 9 _____ Sem. 1 Sem. 2
 English 10 _____ Sem. 1 Sem. 2
 English 11 _____ Sem. 1 Sem. 2
 English 12 _____ Sem. 1 Sem. 2

MATH (20 credits)

1st year math _____ Sem. 1 Sem. 2 **A-G: Minimum C's or better
 2nd year math _____ Sem. 1 Sem. 2 in Alg I, Geometry, and Alg II or Mathematics I,
 3rd year math* _____ Sem. 1 Sem. 2 Mathematics II and Mathematics III.

*The math graduation requirement is 20 credits with a minimum completion of Algebra I, however, since we are a college prep school, enrollment in math junior year is REQUIRED at CVHS.

Science (20 credits)

Life Science _____ Sem 1 Sem 2
 Ag. *Biology/ Biology/Adv.Bio/AP Bio/Anatomy-Physiology*
 Physical Science _____ Sem 1 Sem 2
 Ag. *Chemistry/ Chemistry/ Adv. Chemistry/ AP Chemistry/ Physics/ Honors Physics*
 3rd year science* _____ Sem 1 Sem 2

*The science graduation requirement is one year of life and one year of physical science, however, since we are a college prep school, enrollment in science in junior year is REQUIRED at CVHS

Social Science (30 credits)

World History/AP European History _____ Sem 1 Sem 2
 US History/ AP United States History _____ Sem 1 Sem 2
 American Government/ AP American Government _____ One Semester
 Economics/AP American Government _____ One Semester

A-G (4-year Eligibility Box)		
A.	C's or better in World and US History	
B.	C's or better in all English classes	
C.	C's or better in at least Alg I , Geom, Alg II or Math I Math II, Math III.	
D.	C's or better in Bio or Anatomy AND Chemistry or Physics	
E.	C's or better in Span II or higher	
F.	C or better in a Fine Art	
G.	Any Extra's	

Other Requirements

PE (four semesters) _____ Sem. 1 Sem. 2 Sem. 3 Sem. 4
Frosh PE/PE/Weight Training/Dance I, II/Adv. Dance/Aerobics/Strength and Fitness/ Team Sports/Marching Band

Fine Art OR Spanish _____ Sem. 1 Sem. 2

**A-G: Fine Art & 2 years Spanish are required.

Total of 230 Credits

PLAN FOR THE FUTURE: All Central Valley High school students are expected to graduate and go on to some form of further education. Without post-high school academic or career education, students' career choices and earning power will be limited. To be prepared for this continued education, students are expected to take the most rigorous courses possible during all four years of high school.

4-Year College Entrance Requirements

1. “A-G” SUBJECT REQUIREMENTS: Admission requirements for the University of California (U.C.) and the California State University (CSU) systems include the successful completion of the following “a-g subjects” with a grade of “C” or better.

A) HISTORY/SOCIAL SCIENCE: 2 years (one year of World History; 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 (*4 years of college preparatory English*)

C) MATH: 3 years required, 4 years recommended (*Algebra I, Geometry and Algebra II or Mathematics I, Mathematics II and Mathematics III*)

D) LAB SCIENCE: 2 years required, 3 years recommended (*1 year of physical science, 1 year of life science*)

E) FOREIGN LANGUAGE: 2 years required, 3 years recommended (*must be the same language*)

F) VISUAL/PERFORMING ARTS: 1 year (*two semesters of the same class in Visual and Performing Arts, Music, Dance or Drama*)

G) COLLEGE PREP ELECTIVES: 1 year (*two semesters in addition to those required in “a-f” above, chosen from the following areas: visual and performing arts (non-introductory level), history, social science, English, advanced mathematics, lab science and language other than English*)

OTHER COLLEGE or TRAINING ENTRANCE REQUIREMENTS:

CALIFORNIA STATE UNIVERSITY (CSU’s)

- Minimum 2.0 GPA
- Must take either SAT or the ACT
- The CSU uses a calculation called an Eligibility Index which combines the student’s high school grade point average with their SAT /ACT test scores to determine eligibility.

UNIVERSITY OF CALIFORNIA (UC’s):

- Minimum 3.0 GPA
- Must take either the SAT or the ACT PLUS WRITING.
 - SAT II (subject tests) are recommended as application enhancement but not required.
- A personal statement is required
- The UC uses a calculation called an Eligibility Index which combines the student’s high school grade point average with their SAT/ACT test scores to determine eligibility.

CALIFORNIA COMMUNITY COLLEGES: California Community College entrance requirements include being 18 years of age and placement tests in reading, writing and math, or a high school diploma or GED certificate. CVHS students are strongly encouraged to take rigorous math and English courses so they will be better prepared for the community college placement tests.

PRIVATE COLLEGES AND UNIVERSITIES: Admission requirements vary with each school. Students are encouraged to explore each school’s web-site for information. Counselors are available to assist students in finding this important information.

TRADE AND TECHNICAL SCHOOL/COLLEGES: Trade and Technical schools differ from school to school. Students may check information available in the Counseling Office to find out about entrance requirements. Community Colleges provide many programs designed to prepare students for a trade.

A-G CSU/UC Approved Course List

Course listed in dark bold print denotes courses that have been approved for extra honors credit: a=5, b=4, c=3

♦ denotes course that cannot be used to fulfill the "g" elective requirement

A) HISTORY/SOCIAL SCIENCE (2 years)

P World History
P US History
P Principles of Democracy

European History (AP)

US History (AP)

American Government (AP)

B) ENGLISH (4 years)

P English 9
P English 10
P English 11
P Expository Reading & Writing
Pre-AP English 9
Pre-AP English 10

English Language (AP)

English Literature (AP)

C) MATH (3 years)

P Integrated Mathematics I ♦
P Accelerated Int Math I
P Integrated Math II ♦
P Accelerated Int Math II
P Integrated Math III ♦
P Accelerated Int. Math III
P Algebra II♦
Finite Math
P Pre-Calculus
Calculus AB (AP)
Statistics (AP)

D) LAB SCIENCE (2 years)

P Sustainable Agriculture Biology (pending)
P Biology
P Advanced Biology
P Advanced Ag Biology
P Agriculture & Soil Chemistry (pending)
previously Ag Chem
P Chemistry
P Advanced Chemistry
P Physics
PH Physics
P Anatomy/Physiology
P Agriculture Systems Management (pending)
Biology (AP)
Chemistry (AP)
Environmental Science (AP)

E) FOREIGN LANGUAGE (2 years)

P Spanish I♦
P Spanish II
P Spanish III
P Spanish Speakers II
P Spanish Speakers III
Spanish Language (AP)
Spanish Literature (AP)

F) VISUAL/PERFORMING ARTS (1 year)

P Art I♦
P Art II
P Art III
P 3-D Art♦
P Advanced 3-D Art/Clay Sculpture
P Theater Arts I♦
P Theater Arts II
P Theater Arts III
P Theater Arts IV
P Concert Choir♦
P Choraliers (audition/teacher approval)♦
P Women's Chorale (audition/teacher approval)
P Concert Band
P Advanced Jazz Ensemble
P Wind Ensemble♦
P Percussion Band♦
P Guitar (pending)
P Dance Production I♦
P Dance Production II
P Advanced Dance (teacher approval)
P Advanced Ag Floriculture
P Computer Graphics
P Digital Photography
P Advanced Digital Photo/Graphics
P Colorguard (Pending)
Studio Art (AP)
Music Theory (AP) (pending)

G) COLLEGE PREP ELECTIVE (1 year)

All courses must be listed under "a-f" above with the exception of courses marked with a diamond (♦) in Mathematics, Language Other than English, and VPA; plus the following:

P Economics
P Advanced Animal Science
P Intro to Veterinary Science
P Intro to Plant and Animal Agriculture
P Intro to Engineering Robotics 1 (PLTW)
P Principles /Engineering Robotics II (PLTW)
P Digital Electronics III (PLTW)
P Animation
P Food Science (pending)
Psychology (AP)

AGRICULTURE

4244/4245 SUSTAINABLE AGRICULTURE BIOLOGY CSU/UC (d) **GRAD CREDIT: Life Science** 9th–12th grade
Sustainable Agriculture Biology is a one year course designed to integrate biological science practices and knowledge into the practice of sustainable agriculture. The course is organized into four major sections, or units, each with a guiding question. Unit one addresses the question, What is sustainable agriculture? Unit two, sustainable agriculture fit into our environment? Unit three, What molecular biology principles guide sustainable agriculture? Unit four, How do we make decisions to maximize sustainable agricultural practices within a functioning ecosystem? Within each unit specific life science principles will be identified with agricultural principles and practices guiding the acquisition of this knowledge, culminating in the development of a sustainable farm model and portfolio of supporting student research. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

Prerequisite: Math I enrollment

4246/4247 P ADVANCED AG BIOLOGY CSU/UC (d) **GRAD CREDIT: Life Science** 9th–12th grade
This accelerated rigorous course is designed for Honors/Gate agriculture students who are college-bound. This course involves in-depth study of cellular organization and processes, reproduction of plants and animals, genetics, evolution, physiology of agriculture plant and animals and ecology. Emphasis will be placed on investigation, analysis, and critical thinking of course contents through labs and agriculture research projects. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

5404/5405 AGRICULTURE AND SOIL CHEMISTRY CSU/UC (d) **GRAD CREDIT: Physical Science** 10th-12th grade
This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research project to be conducted throughout the first semester of the course. Additionally, students will develop a soil management plan for agricultural producers, using the content learned throughout the course. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

Prerequisite: Ag Biology and Math I or equivalent

5428/5429 AGRICULTURE SYSTEMS MANAGEMENT CSU/UC (d) (pending) **GRAD CREDIT: Physical Science** 11th-12th grade

Agriculture Systems Management combines an interdisciplinary approach to laboratory science and research with agricultural management principles. Using skills and principles learned in the course, students design systems and experiments to solve agricultural management issues currently facing the industry. Additionally, students will connect the products created in this class with industry activities to link real world encounters and implement skills demanded by both colleges and careers. The course culminates with an agriscience experimental research project in which students design and conduct an experiment to solve a relevant issue. Final projects will be eligible for Career Development Event competition at FFA events. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

Prerequisite: Ag Chemistry or equivalent

AGRICULTURE

5430/5431 FOOD SCIENCE CSU/UC (g)

GRAD CREDIT: Elective

11th-12th grade

Students taking this course will experience a comprehensive study in foods. Students will learn about foods from origin through consumption, as well as processes involved between. Hands on experiences in the food system, through extensive engagement of community members and utilization of community resources will integrate course content directly as applied. Units in this course include an Overview of Food Science, Nutrition and Digestion, Chemistry of Foods, Operations in Food Processing, Packaging; Dairy Processing, Meat Poultry and Eggs, Cereal Grains, Legumes, and Oilseed, Fruits and Vegetables, Food Safety, Regulation and Labeling, Fats and Oils, Candy and Confectionery. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

Prerequisite: Agriculture and Soil Chemistry or equivalent

5432/5433 INTRO TO PLANT AND ANIMAL AGRICULTURE

GRAD CREDIT: Elective

9th–12th grade

The Introduction to Plant and Animal Agriculture course is an entry level course which will introduce students to many aspects of agriculture. Topics of instruction include agricultural awareness and literacy, leadership and FFA, employability skills and introduction to all aspects of the total agricultural industry including California agriculture, plant science, and animal science. The class will include multiple hands on labs working with plants and livestock animals. Supervised agricultural experience programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

4222/4223 P VETERINARY SCIENCE CSU/UC (g)

GRAD CREDIT: Elective

11th–12th grade

This course provides a basic overview of the veterinary field covering career skills, career opportunities, sanitation, various species of small animals, anatomy and physiology, nutrition, disease control, lab skills, pharmacology, emergency procedures, radiology, and common surgery procedures. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course. Prerequisite: Completion of Animal Science or instructor approval.

4248/4249 P ANIMAL SCIENCE CSU/UC (g)

GRAD CREDIT: Elective

10th–12th grade

This advanced course in Animal Science will focus on livestock management practices. Included in this course will be livestock breeds, health care, handling facilities, anatomy and physiology, artificial insemination and breeding practices, judging and many other hands-on activities. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

Prerequisite: Completion of Intro to Animal Agriculture or instructor approval.

AGRICULTURE

5250/5251 INTRO TO POWER MECHANICS

GRAD CREDIT: Elective

10th–12th grade

This introductory course will focus on small engines. The subjects that will be covered are internal combustion, electrical systems, fuel and fuel systems, hydraulics, maintenance and repair. The class will emphasize hands-on experience. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

5208/5209 INTRO TO AG MECHANICS

GRAD CREDIT: Elective

9th–12th grade

This course is designed to provide students with basic skills and knowledge in the areas of shop safety, ropework, cold metal, plumbing, electrical, wood working, and welding. Students will receive classroom instruction as well as “hands on” experience. Each unit of instruction includes a required project that is designed to allow the student to apply those skills learned in the classroom to a practical application and will be shown at the Stanislaus County Fair. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

5232/5233 ROP POWER MECHANICS

GRAD CREDIT: Elective

11th–12th grade

This is a project-based course where students will learn the fundamentals of operations and engine diagnostics. Students will perform engine assembly and disassembly. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course. **Prerequisite:** Successful Completion of Intro to Power Mechanics, or instructor approval.

5206/5207 AG WELDING

GRAD CREDIT: Elective

10th–12th grade

Students will learn how to arc weld, oxy-acetylene weld, cut, braze, and MIG (wire feed) weld. Students will get experience in basic project construction. All completed projects will be shown at the Stanislaus County Fair in Turlock. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

Prerequisite: Successful Completion of Intro to Ag Mechanics, or Instructor Approval.

5222/5223 ROP WELDING

GRAD CREDIT: Elective

11th–12th grade

This two period course is for the development of advanced welding skills. Students learn advanced skills in arc welding, MIG (wire feed), oxyacetylene welding and cutting, plasma cutting, and TIG (Tungsten and Inert Gas welding). Students will further develop job-related skills by becoming self-starters and acquiring necessary materials for projects, while developing safety and fire prevention attitudes. Students will earn college credits at Modesto Junior College if they complete the class and enroll at MJC. They will be prepared for a job in a welding shop. All completed projects will be shown at the Stanislaus County Fair. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

AGRICULTURE

5224/5225 ROP WELDING FABRICATION II

GRAD CREDIT: Elective

12th grade

This two period course, Welding & Fabrication provides serious students with entry-level skills at the completion of the course. Instruction is provided in advanced Shielded Metal and Gas Metal Arc Welding (M.I.G.) and advanced Oxy-Acetylene Welding. Gas Tungsten Arc Welding (T.I.G.) is also covered. Students are required to develop skills in welding overhead and completing welding certification tests, along with refining skills in operating the Air Carbon Arc, Plasma Arc, and Oxy-Acetylene cutting units. Students receive instruction in safety, hand and power tool usage, planning, and material selection and usage as related to the construction of items used around the shop and home. Students experiment with their own ideas and methods in the design and fabrication of an individual project. Students are allowed one semester to complete this task. If taken a second year, students are able to work on more complex projects that are more intense in design and fabrication. Students are encouraged to exhibit their projects at the local county fair and the California State Fair. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

Prerequisite: Course: ROP Ag Welding.

5218/5219 INTRODUCTION TO PLANT PRODUCTION

GRAD CREDIT: Elective

10th–12th grade

This class will focus on how to grow and care for houseplants and plants used for landscaping. Students will learn how to reproduce plants, provide fertilizer, pest control, marketing and operate a greenhouse through hands-on experience. If you like plants, this is the class for you. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

5216/5217 ROP PLANT PRODUCTION

GRAD CREDIT: Elective

11th–12th grade

This two-period course deals with landscape design, installation and maintenance. Topics of study include: landscape design, study of color, location of lawns, trees, shrubs, walks, driveways, patios, planters, and other landscape structures for home and parks. A great deal of the class consists of hands-on-activities. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

5212/5213 ROP INTRO TO FLORICULTURE

GRAD CREDIT: Elective

9th-12th

This course is designed for students who are interested in the art of floral design. This course will cover flower care and processing, tool identification, flower ID, basic flower arranging, corsage construction, balloon design, and house plant care. The class will do seasonal projects with fresh flowers and dry materials. This class will prepare students for Ag Floriculture (ROP). Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course. *(This is a 2+2 class that is articulated with MJC)*

4528/4529 P ROP AG ADV FLORICULTURE CSU/UC (f)

GRAD CREDIT: Fine Art or Elective

11th–12th grade

The Advanced Ag Floriculture ROP course will give students career experience in floral design and the artistic principles of visual art. Students will create floral arrangements using advanced design principles. Part of the class will be designing and arranging for outside floral sales such as weddings and events. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course. *(This is a 2+2 class that is articulated with MJC)*

AGRICULTURE

5424/5425 AG LEADERSHIP (ZERO PERIOD)

GRAD CREDIT: Elective

9th-12th grade

This course is designed to promote and develop leadership in the Agriculture Industry. Topics will include current issues in Ag, Ag legislation, development of personal leadership skills, FFA operation and Judging Teams and exploration of past and present needs in the Ag Industry and its leaders. This course will be offered during 0 period. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

VISUAL/PERFORMING ART AND TECHNOLOGY

4500/4501 P ART I CSU/UC (f)

GRAD CREDIT: Fine Art 9th–12th grade

Art I is a beginning art course. Students will learn the elements of art and basic design principles. Students will be introduced to art movements in history and their influence on today's world. They will develop proficient skills in drawing, painting, ceramics and design using a wide variety of media.

4502/4503 P ART II CSU/UC (f)

GRAD CREDIT: Fine Art 9th–12th grade

Art II is for the second year art student. Students will expand their design, drawing and painting skills using a variety of media, including paint, pastel, charcoal, pen and ink. Students will creatively communicate through their work and will interpret the work of others through writing and discussion. **Prerequisite:** Successful completion of Art I with a C or better or Instructor Approval.

4504/4505 P ART III CSU/UC (f)

GRAD CREDIT: Fine Art 9th–12th grade

Art III is an advanced art course. The course is designed for the motivated art student interested in majoring in art or an art related field, or for the student wishing to investigate other art issues and media interests. **Prerequisite:** Successful completion of Art II with a C or better or Instructor Approval.

4510/4511 P 3-D ART/CLAY SCULPTURE CSU/UC (f)

GRAD CREDIT: Fine Art 10th–12th grade

This course is designed for the student with strong interests in building three-dimensional art in primarily ceramic media. Students will develop skills in drawing, design, and color theory related to the development and construction of 3D Art. Building techniques and methods for each media will be developed. Students will creatively communicate through their work and will interpret the work of others through writing and discussion. **Prerequisite:** Successful completion of Art I with a C or better or Instructor Approval.

4512/4513 P ADVANCED 3-D ART/CLAY SCULPTURE CSU/UC (f)

GRAD CREDIT: Fine Art 11th–12th grade

This course is designed for the student who has completed 3-D Art and would like to continue to explore sculpture at an advanced level. In addition to hand-building techniques, students will learn wheel-throwing. Students will develop skills in drawing, design, and color theory related to the development and construction of 3D Art. Self-evaluation and group critique will be an important part of this course as students develop a portfolio of their work. **Prerequisite:** Successful completion of: Art I and 3-D Art with a C or better or Instructor approval.

4506/4507 AP STUDIO ART (weighted GPA) CSU/UC (f)

GRAD CREDIT: Fine Art 10th–12th grade

The AP program in Studio Art is intended for highly motivated students. AP involves significantly more commitment and accomplishment than the typical high school art course. Students will be expected to work in class and outside of class on a series of art concentrating on a visual interest area. Portfolios will be submitted in the spring, for which a student may receive college credit. Areas of investigation will include the standards of artistic perception, creative expressions, historical and cultural context, aesthetic valuing and connections to other curricular areas and careers.

Prerequisite: AP contract signed by student and parent.

4530/4531 P DIGITAL PHOTOGRAPHY

GRAD CREDIT: Fine Art 10th–12th grade

Digital Photography as a Fine Art is designed for students who are interested in fine art photography as a means of expression. The emphasis is on approaching the world of photography as a means of artistic perception and will focus on the elements of art, principles of design and composition, as well as the history of photography. The technical aspect of this course will include the medium, equipment, techniques and terminology related to digital photography. Students will learn the manual workings of a camera; principles of design relating to both art history and current trends in the industry; storing, archiving and printing procedures; as well as software for post-process image manipulation. General computer experience is necessary, but no prior knowledge of the particular software programs used in the class is required. The California State Standards for the Visual Arts serves as the foundation for the assignments in the course.

VISUAL/PERFORMING ART AND TECHNOLOGY

4536/4537 P ADV. DIGITAL PHOTO/GRAPHICS CSU/UC (f)

GRAD CREDIT: Fine Art 10th –12th grade

This course explores the advanced integration of digital media including digital images and computer graphics. Students work on Multimedia projects from concept (content gathering/research) to project completion (authoring/transmission) and focus on the media and visual communication. Students research historical and cultural context as well as develop and demonstrate skill through critique, creation of photographic and multimedia projects and presentations. Venues include portfolios, web productions, and live presentations. This course also prepares students to work in teams and deploy projects for community organizations and businesses. Students will study Art Elements and Principles of Design. This is an excellent preparation course for the 2-D design segment of the AP Studio Art Portfolio. CTE Pathway 171

Prerequisite: Course: Photography or Comp. Graphics

4508/4509 WORLD CRAFTS

GRAD CREDIT: Elective

9th–12th grade

Students will go into depth investigating heritages and customs different than those usually studied in a traditional art classroom setting. Students will be exposed to other cultures in the classroom (Asian, Spanish, Middle Eastern, African, etc) helping to create relevance in their own traditions and a greater connection to others. Students will learn techniques and skills used from various cultures, and experience crafts using unusual materials. Students will create relationships in class by seeing similarities and differences found in their own heritage and background and sharing those similarities and differences with one another in their artwork. Some crafts may include but will not be limited to: introduction into simple jewelry making, mosaics, mask making, printmaking, paper cutting, and collage.

5328/5329 VIDEO PRODUCTION

GRAD CREDIT: Elective

9th-12th grade

Video production is a course designed for the student interested in creating and producing videos for documentaries, reports, instruction, and individual creative interests. The course introduces concepts in production, taping, lighting, sound, blue and green screen technology, and linear editing. The student will use the Adobe editing, sound, and production software. The course will introduce mid-range video cameras with supporting equipment.

5389/5390 ADVANCED VIDEO PRODUCTION

GRAD CREDIT: Elective

11th-12th grade

Advanced Video Production is a second level Video course. The course is for students who wish to continue creative projects in video media, video broadcast, and news production. Students will produce, tape, and edit using Adobe Editing, Special Effects, and Sound software. Select students will produce the weekly video bulletin. **Prerequisite:** Course: Video Production.

4532/4533 P COMPUTER GRAPHICS CSU/UC (f)

GRAD CREDIT: Fine Art

9th–12th grade

This introductory course in computer graphics and digital photography will focus on the use of Adobe PhotoShop software with emphasis on image creation and manipulation. The course will include introductory digital photography, image creation in various applications, scanning, and digital portfolio production. Modesto Junior College credit may be earned if the class is passed with a B grade or better and certain requirements are met. **Strong computer and art interest recommended.** (This is a 2 + 2 class that is articulated with MJC)

5426/5427 P ANIMATION CSU/UC (g)

GRAD CREDIT: Elective 11th -12th grade

In Animation students will explore motion graphics and cartoon animation. Projects will encompass character development, character profiles/libraries, traditional hand drawn animation, moving typography, 2D and 3D animation with the aid of computer software. All work will be original. **Prerequisite:** Successful completion of Computer Graphics or Multimedia with a C or better and successful completion of Art I with a C or better or instructor approval

VISUAL/PERFORMING ART AND TECHNOLOGY

5262/5263 WEB PAGE DESIGN I

GRAD CREDIT: Elective

9th–12th grade

Web Page Design I is a course designed for students interested in building webpages with a focus on user experience and design. Students will become proficient at using industry standard software while using many computer languages such as Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), and JavaScript. In the course's capstone project, students will be assigned a real-world client and develop a professional website for them.

5264/5265 WEB PAGE DESIGN II

GRAD CREDIT: Elective

10th–12th grade

Continuing with the curriculum of Web Page Design I; the students in this class will function as mentors and team leaders coordinating the workload of incoming projects while learning advanced web design skills.

5256/5257 COMPUTER PROGRAMMING (GAME DESIGN)

GRAD CREDIT: Elective

9th–12th grade

This introductory course in computer programming uses computer games as the vehicle for learning to code. Students will spend the first semester mastering the Visual Basic language, followed by an introduction to Java in the spring. Emphasis will be on tackling projects where student's creativity is encouraged to build custom games, debug code, and research solutions to the complex problems encountered during the design process. **Prerequisite:** Above average keyboarding skills recommended.

5268/5269 AP COMPUTER SCIENCE CSU/UC (g) (weighted GPA)

GRAD CREDIT: Elective

10th–12th grade

This course prepares students for the Advanced Placement Computer Science Exam. The Java Programming language is used exclusively in the learning of classes, arrays, strings, searching and sorting algorithms, and numerous functions. This project-based course includes development of screensavers, custom Asteroids, Minesweeper, Battleship, as well as, curriculum focused on successful completion of the AP exam. **Prerequisite:** Computer Programming I

5416/5417 P INTRODUCTION TO ENGINEERING DESIGN (IED) CSU/UC (g)

GRAD CREDIT: Elective 9th–12th grade

The lead-off course for the nationally acclaimed Project Lead The Way (PLTW) program, Introduction to Engineering Design is a UC A-G approved college prep elective for students interested in becoming engineers. The major focus of the IED course is to expose students to the design process and technical documentation. IED utilizes numerous projects and activities that students find both challenging and fun! Not only will students design complex experiments, but also will incorporate the use of state-of-the-art 3D modeling. This complex and expensive software is used worldwide to design airliners, ships, and countless industrial parts. As the course progresses and the complexity of the design problems increase, students will be ready for the next step in their engineering education (POE).

5418/5419 P PRINCIPLES OF ENGINEERING (PLTW) CSU/UC (g)

GRAD CREDIT: Elective 10th–12th grade

The second course in the Project Lead The Way (PLTW) series, Principles Of Engineering (POE) exposes students to some of the major concepts they will encounter in a college engineering program. This fun but demanding college-prep elective is University of California A-G approved (pending). Students will develop skills and understand concepts through activity-, project-, and problem-based learning. Used in combination with a teaming approach, POE challenges students to continually hone their interpersonal relationships, open-up their creative abilities, and solve real-world problems while learning engineering concepts. The student will build numerous complex machines including a series of task dedicated robots. **Prerequisite:** C or Better in Introduction to Engineering Design (IED).

VISUAL/PERFORMING ART AND TECHNOLOGY

4540/4541 P COMPUTER SCIENCE AND SOFTWARE ENGINEERING CSU/UC (g) pending

GRAD CREDIT: Elective 10th - 12th grade

This Project Lead the Way course functions as Step II of the Computer Science Pathway. Computer Science and Software Engineering (CSE) implements the College Board's 2013 Computer Science Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, robotics, and simulation. The course aligns with CSTA 3B standards. Successful completion of Computer Programming (Game Design) or teacher approval. **Prerequisite:** Course: Computer Programming

4538/4539 P DIGITAL ELECTRONICS CSU/UC (g) pending

GRAD CREDIT: Elective

10th - 12th grade

From smartphones to appliances, digital circuits are all around us. This third step in the Project Lead the Way Engineering sequence, Digital Electronics is designed for students wishing to major in Electrical Engineering, Circuit Design or Electronics at a four-year university. 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. Successful completion of Introduction of Engineering and Principles of Engineering or instructor permission.

Prerequisite: IED and POE

4522/4523 P DANCE PRODUCTION I CSU/UC (f)

GRAD CREDIT: Fine Art or P.E 9th - 12th grade

Dance Production I focuses on developing technique in a variety of disciplines including: Jazz, Ballet, Modern, Contemporary, hip hop and Ethnic dance. Elements of dance composition will be explored through choreography assignments that culminate in performance. A strong emphasis is placed on developing skills in dance technique and terminology. The history of dance and development of critical analysis will be included in the program, along with the health-based curriculum. Students will be involved in all aspects of a performance: ticket sales, props, costume design, fundraising, and dance choreography.

4524/4525 P DANCE PRODUCTION II CSU/UC (f)

GRAD CREDIT: Fine Art or P.E. 10th - 12th grade

Intermediate Dance will build on the skills and terminology that students learned in Dance Production I. Dance Production II focuses on further developing technique in a variety of disciplines including Jazz, Ballet, Modern, Contemporary, Hip Hop, and Ethnic Dance. Elements of dance composition will be explored through more advanced choreography assignments that culminate in performance. A strong emphasis is placed on further developing skills in dance technique and terminology. The history of dance and development of critical analysis will be included in the program, along with the health-based curriculum. Students are required to participate in the Spring Dance Showcase at the end of the year. Students will be involved in all aspects of a performance: tickets, sales, props, costumes, fundraising, and dance choreography. **Prerequisite:** Successful completion of Dance Production I or instructor approval.

4526/4527 P ADVANCED DANCE PRODUCTION CSU/UC (f)

GRAD CREDIT: Fine Art or P.E. 10th - 12th grade

Dance Production is an advanced class for students who are interested in performing and pursuing dance for personal interest, further academic preparation, or for a possible career in dance or a dance-related field. This course will continue to build on the skills that students work on in Intermediate Dance. Dance Production focuses on perfecting technique in a variety of disciplines including Jazz, Ballet, Modern, Contemporary, Hip Hop, and Ethnic Dance. Elements of dance composition will be explored through advanced choreography assignments that culminate in performance. A strong emphasis is placed on perfecting skills in dance technique and terminology. The history of dance and development of critical analysis will be included in the program, along with the health-based curriculum. Students are required to participate in the Winter and Spring Dance Showcases. Students will be involved in all aspects of a performance: tickets, sales, props, costumes, fundraising, and dance choreography. **Prerequisite:** This course is by audition or teacher recommendation only.

VISUAL/PERFORMING ART AND TECHNOLOGY

4486/4487 P THEATER ARTS I CSU/UC (f)

GRAD CREDIT: Fine Art

9th - 12th grade

Theater Arts I will offer entry level drama students a course that will explore the basic elements of drama/acting skills and develop their knowledge of related genres. The students will work independently and in groups on a variety of theater related subjects such as improvisation, pantomime, character development, monologue and scene study. Auditioning skills will be emphasized. No pre-requisite necessary.

4488/4489 P THEATER ARTS II CSU/UC (f)

GRAD CREDIT: Fine Art

10th - 12th grade

Theater Arts II is a course for drama/acting students with prior experience. (Theater Arts I) The students will receive instruction utilizing an accelerated curriculum that includes advanced acting skills, scene and monologue mastery, speech making, advanced improvisation and expanded character development. Students enrolled in Theater Arts II will be expected to audition for and/or be involved in the various theater productions at CVHS throughout the year.

Prerequisite: Instructor approval.

4490/4491 P THEATER ARTS III CSU/UC (f)

GRAD CREDIT: Fine Art

11th - 12th grade

Theater Arts III is a course for drama/acting students with prior experience. (Theater Arts I or II) The students will receive instruction utilizing an accelerated curriculum that includes advanced acting skills, scene and monologue mastery, speech making, advanced improvisation and expanded character development. They will also learn behind the scenes crafts such as basic stage make-up, lighting and sound. Students enrolled in Theater Arts III will be expected to audition for and/or be involved in the various theater productions at CVHS throughout the year. **Prerequisite:** Instructor approval

4492/4493 THEATER ARTS IV CSU/UC (f)

GRAD CREDIT: Fine Art

12th grade

Theater Arts IV is the advanced studies class for emerging actors and actresses at CVHS. The students will be expanding their various acting skills and working toward the mastery required to audition and perform for projects at the high school level and above including community theater and area college productions. The students will work closely together on classroom projects with a mix of 2 levels. They will experience giving and receiving constructive criticism of their work. They will also explore the behind the scenes world and the history of the theater. Public performances will be required.

Prerequisite: Course: T.A.II and/or III + instructor approval.

4446/4447 P CHORALIERS CSU/UC (f)

GRAD CREDIT: Fine Art

10th - 12th grade

Choraliers is CVHS advanced mixed choir. Singers will receive instruction in accelerated choral curriculum. Included will be vocal pedagogy, sight-reading and music theory. Singers will perform a variety of choral music including multiple cultures, styles and languages. Choraliers will also work on the skills required for musical theater including choreography and stage personality. Choralier performances are mandatory. There will also be many optional performance opportunities.

Prerequisite: Selection for Choraliers is by audition only.

4448/4449 P CONCERT CHOIR CSU/UC (f)

GRAD CREDIT: Fine Art

9th - 12th grade

Beginning to developing level mixed choir open to any CVHS student. Concert Choir members will learn the basics of singing and then work toward skills for ensemble singing and performance. Rehearsal skills will be developed and students will learn to read music. Some public performance expected.

VISUAL/PERFORMING ART AND TECHNOLOGY

4436/4437 CONCERT BAND CSU/UC (f)

GRAD CREDIT: Fine Art

9th–12th grade

This year-long course is a performance-oriented class designed to allow the beginning-intermediate musician to improve and maximize their capabilities on their given instruments. Students will learn and perform music of the concert/symphonic band literature. Performances will include a winter and spring concerts and various concert festivals and competitions in which the ensemble is entered. Attendance at all rehearsals and performances is required. Under normal circumstances students will be concurrently enrolled in the marching band to receive additional PE credit. However, individual exceptions may be made for students with schedule conflicts or other individual circumstances, which may make fulfilling this requirement unfeasible for the student. **Prerequisite: Students should have previous experience on a symphonic band musical instrument, though it is not required.**

4444/4445 BEL CANTO CSU/UC (f)

GRAD CREDIT: Fine Art

9th–12th grade

Bel Canto is a women's choir at CVHS and is open to singers grade 10-12 (9th grade students would need instructor approval/prior choral experience). Singers will receive instruction in vocal production, musicianship, sight-singing and rehearsal technique. Members will study, rehearse and perform a variety of choral music including multiple cultures, styles and languages. Bel Canto performances are mandatory. There are also optional activities for its members related to the study of choral music throughout history. The members of the ensemble will participate in multiple public concerts and festivals throughout the area.

Prerequisite: Prior choral experience

4438/4439 P WIND ENSEMBLE CSU/UC (f)

GRAD CREDIT: Fine Art

9th–12th grade

This year-long course is a performance-oriented class designed to allow experienced musicians to improve and maximize their capabilities on their given instruments. Students will learn and perform advanced music of symphonic band literature. Performances will include a winter and spring concert and various concert festivals and competitions in which the ensemble is entered. Attendance at all rehearsals and performances is required. Students in this class are required to be concurrently enrolled in marching band to receive additional PE credit. **Prerequisite: Must have previous playing experience and instructor approval to ballot.**

4440/4441 P ADVANCED JAZZ ENSEMBLE CSU/UC (f)

GRAD CREDIT: Fine Art

9th-12th grade

Students will learn intermediate improvisational techniques to rehearse and perform jazz music in all styles and genres. Music theory and music history are core components of this class. The jazz band will perform at festivals, concerts, and community events throughout the year. Attendance at outside of class rehearsals and performances is a required portion of the class. The jazz ensemble is a performance-based class designed for intermediate students with experience on saxophone, trumpet, trombone, guitar, piano, percussion, drum set, or bass. Under normal circumstances students will be concurrently enrolled in the marching band to receive additional PE credit. However, individual exceptions may be made for students with schedule conflicts or other individual circumstances, which may make fulfilling this requirement unfeasible for the student. **Prerequisite: One year of playing experience and performance audition but may be waived with instructor approval.**

VISUAL/PERFORMING ART AND TECHNOLOGY

5406/5407 P PERCUSSION BAND CSU/UC (f)

GRAD CREDIT: Fine Art

9th–12th grade

Percussion is a performance-oriented class with an emphasis on different drums and mallet techniques. Rhythm reading, music vocabulary, and percussion performance techniques will serve as a year-long goal. Students will learn to play on a variety of mallet percussion and drum instruments. Performance music will focus on small ensemble and concert percussion works. Performances will include a winter and spring concert, as well as other performances scheduled throughout the year. Attendance at outside of class rehearsals and performances is a required portion of the class. Under normal circumstances students will be concurrently enrolled in the marching percussion program to receive additional PE credit. However, individual exceptions may be made for students with schedule conflicts or other individual circumstances, which may make fulfilling this requirement unfeasible for the student.

4494/4495 GUITARI CSU/UC (f) pending

GRAD CREDIT: Fine Art

9th–12th grade

This performance-based course will cover beginning guitar techniques such as music theory, history, and musicianship. Students will learn the basics of guitar playing in the first position. Students will also learn to read musical notation, guitar tablature, and guitar chords as well as be able to perform music in a variety of styles. The course is designed as an introduction to guitar and previous playing experience is not required. Students wishing for an intermediate to advanced level guitar class should ballot for Advanced Jazz Ensemble.

5326/5327 COLOR GUARD CSU/UC (f) pending

GRAD CREDIT: Fine Art

9th-12th grade

This performance-based class provides students with a general understanding of rhythmic construction and patterns allowing for the instruction of rhythmic accuracy through the use of guard equipment such as flags, rifles, sabers and other auxiliary equipment. Students will develop the techniques and skills needed to perform various times throughout the school year. **Prerequisite: Instructor Approval/Audition**

4556/4557 AP MUSIC THEORY CSU/UC (f) pending

GRAD CREDIT: Fine Art

9th-12th grade

AP Music Theory is an academic-based course with an aural component tied to each topic. The course will cover topics such as musical terminology, aural skills, notation, rhythm and meter, scales, intervals, triads and seventh chords, cadences, non-harmonic tones, melody, texture, voice leading, modulation, and small forms and score analysis. Students will develop their aural skills through listening exercises, sightseeing skills through performance, written skills through written assignments focusing on subject specific vocabulary, compositional skills through creative exercises in writing music, and analytical skills through interpretation of music and musical scores.

LEADERSHIP

5200/5201 LEADERSHIP

GRAD CREDIT: Elective

9th–12th grade

The leadership class is for students who wish to be involved in student government, be instrumental in all school activities, and have involvement in positive changes at Central Valley High School. Students are required to work at sporting events, dances and extra-curricular activities. Students will gain skills in communication, organization, business, personal and social responsibility, group processing and problem solving. The leadership class is for students who are involved in student government at Central Valley. Students in the leadership class will be elected officers or appointed commissioners who have been appointed by the Leadership Council and instructor.

5202/5203 RENAISSANCE LEADER (AMBASSADORS)

GRAD CREDIT: Elective

11th–12th grade

The goal of the Ambassadors & Renaissance class is to teach students how to be a leader and positive role model on campus. Students will be involved in mentoring Freshmen, organizing events, and community service. Students will also be responsible for promoting a positive school environment at Central Valley by recognizing students and staff for various successes and milestones. The class also engages in recognizing and rewarding academic achievement and improvement through the Renaissance program. Students in the Ambassador course must be a member of the club and will be determined through the Ambassador selection committee. They must apply to the club in the spring.

5391/5392 SUCCESS 101

GRAD CREDIT: Elective

9th grade

Where will you be in 10 years? Will you be thriving in a career that supports the type of lifestyle you want, or will you still be living at home scrambling to figure out what you're going to do with your life? These are important questions that students must be prepared to answer. Success 101 utilizes the Career Choices curriculum which takes students through a step-by-step process to answer three important questions: Who am I? What do I want? How do I get it? Students will take the information they learn, through meaningful lessons and activities, and complete a personalized 10-year plan that will become the foundation of success for their lives. Students in the Success 101 course will be determined by teacher recommendations and standardized test scores.

ENGLISH

4030/4031 P ENGLISH 9 CSU/UC (b)

GRAD CREDIT: English

9th grade

This standards-based college preparatory English course is designed to meet the needs of students at a variety of levels. Students are expected to respond to both a variety of literary genres and a variety of writing situations at grade level. Students will be exposed to a variety of writing, speaking, listening, and thinking activities. Essay writing is taught as a process. Grammar usage, mechanics, vocabulary, and test taking skills are embedded in the material given. Students will be exposed to research skills. Students are expected to read and write outside of the classroom setting.

4034/4035 PRE-AP ENGLISH 9 CSU/UC (b)

GRAD CREDIT: English

9th grade

This standards-based college preparatory English course is designed as a step in the process of preparing for both college and for Advanced Placement courses that are offered in the 11th and 12th grade. This course emphasizes all of the skills of CP English 9, but with increased rigor through assignment variety and pacing. This course also emphasizes critical thinking, reading, writing and researching. Students are expected to write analytically, informatively, and creatively and also to demonstrate accurate use of English conventions. Vocabulary and test taking skills are also emphasized. Students are expected to read grade level and above grade level material. Students will be assigned to read and write outside of the classroom setting. Students are also expected to complete an assignment during the summer as preparation for skills emphasized throughout the course.

5316/5317 ENGLISH 9 SUPPORT

GRAD CREDIT: Elective

9th grade

This standards-based course is designed to enrich/support students in reading comprehension, language usage, vocabulary, and writing conventions. Essay writing is taught as a process. The curriculum is designed to support students in mastery of 9th grade California Standards in reading and writing. Preparation for standardized tests is also provided.

4036/4037 P ENGLISH 10 CSU/UC (b)

GRAD CREDIT: English

10th grade

This standards-based college preparatory English course is designed to meet the needs of students at a variety of levels. Students are expected to respond to a variety of literary genres and a variety of writing situations at grade level. This course builds on the skills and standards addressed in previous English courses. Written expression and language development are emphasized. Areas of study include a variety of writing situations, including 1st and 3rd person compositions, and a variety of reading selections, including poetry, short stories, novels and nonfiction essays. Students are expected to read and write outside of the classroom setting.

4038/4039 PRE-AP ENGLISH 10 CSU/UC (b)

GRAD CREDIT: English

10th grade

This standards-based college preparatory English course is designed as a step in the process of preparing for both college and for Advanced Placement courses that are offered in the 11th and 12th grades. This course emphasizes all of the skills of P English 10, but with increased rigor through assignment variety and pacing. This course also emphasizes critical thinking, reading, writing and researching. Students are expected to write analytically, informatively, and creatively and also to demonstrate accurate use of English conventions. Vocabulary and test taking skills are also emphasized. Students are expected to read grade level and above grade level material. Students will be assigned reading and writing outside the classroom setting. Students can also expect to be asked to complete an assignment during the summer as preparation for skills emphasized throughout the course.

5320/5321 ENGLISH 10 SUPPORT

GRAD CREDIT: Elective

10th grade

This standards-based course is designed to enrich/support students in reading comprehension, language usage, vocabulary, and writing conventions. Essay writing is taught as a process. The curriculum is designed to support students in mastery of 10th grade California Standards in reading and writing. Preparation for standardized tests is also provided.

ENGLISH

4040/4041 P ENGLISH 10 CSU/UC (b)

GRAD CREDIT: English

11th grade

This standards-based college preparatory English course is designed to meet the needs of students at a variety of levels. Students are expected to respond to a variety of genres and a variety of writing situations at grade level. The literary emphasis for this course is on American literature. This course builds on the skills and standards addressed in previous English courses. Written expression and language development are emphasized. Areas of study include a variety of writing situations such as editorial writing, reflective writing, descriptive writing, autobiographical writing and historical research. Students are expected to read and write outside the classroom setting.

5322/5323 ENGLISH 11 SUPPORT

GRAD CREDIT: Elective 11th grade

This standards-based course is designed to enrich/support students in reading comprehension, language usage, vocabulary, and writing conventions. Essay writing is taught as a process. The curriculum is designed to support students in mastery of 11th grade California Standards in reading and writing. Preparation for standardized tests is also provided.

4046/4047 AP ENGLISH LITERATURE (weighted GPA) CSU/UC (b) GRAD CREDIT: English 11th grade

An AP English Literature course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Summer reading and writing is required. Students prepare for the Advanced Placement Examination in English Literature and Composition to earn possible college-level credit. **Prerequisite:** AP contract signed by student and parent.

5398/5399 P EXPOSITORY READING & WRITING CSU/UC (b) GRAD CREDIT: English 12th grade

The goal of this course is to prepare college bound seniors for literacy demands in higher education. Students will learn about the rhetorical strategies employed by authors and to apply those strategies in their own writing. They will read closely to examine the relationship between an author's argument or theme and his or her audience and purpose; to analyze the impact of structural and rhetorical strategies; and to examine the social, political and philosophical assumptions that underlie the text. By the end of the course, students will be able use this process independently when reading unfamiliar texts and writing in response to them.

4042/4043 AP ENGLISH LANGUAGE (weighted GPA) CSU/UC (b) GRAD CREDIT: English 12th grade

Students in this college-level course will have previously demonstrated strong writing and analytical skills. Students read and carefully analyze a broad and challenging range of prose selections, and develop their awareness of how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. While the reading assignments feature expository, analytical, and argumentative essays from a variety of authors and historical contexts. Summer reading and writing is required. Students prepare for the Advanced Placement Examination in English: Language and Composition to earn possible college-level credit. **Prerequisite:** AP contract signed by student and parent

ENGLISH

5324/5325 ENGLISH 12 SUPPORT

GRAD CREDIT: Elective

12th grade

This standards-based course is designed to enrich/support students in reading comprehension, language usage, vocabulary, and writing conventions. Essay writing is taught as a process. The curriculum is designed to support students in mastery of 12th grade California Standards in reading and writing. Preparation for standardized tests is also provided.

5304/5305 JOURNALISM

GRAD CREDIT: Elective

9th-12th grade

This is a yearlong-course designed for students interested in the media, writing, photography, computers and thinking about the events of our world. The course will emphasize print media. Students will learn the fundamentals of interviewing, news writing (hard news, editorial, feature, and sports), gathering and reporting, proofreading and editing, advertising and marketing, journalistic ethics and responsibility, layout and design, photography, and desktop publishing. Students will learn research skills; they will be required to critique local newspapers; they will brainstorm ideas for articles for publication in the school newspaper. This course is required for student interested in the ROP Newspaper class.

5306/5307 ROP NEWSPAPER

GRAD CREDIT: Elective

10th-12th grade

This is an advanced level journalism course that produces the school newspaper. The focus is on learning and performing the basics of journalistic writing. Students are also introduced to the media and explore its role and function within the context of a democratic society. The primary goal, however, is production. This course is structured on a four-week news cycle that involves brainstorming, story assignments, reporting, writing, rewriting, meeting deadlines, selling advertising, and celebrating a job well done. In addition to reporting and ad sales, students are given the opportunity to choose other journalistic activities, including leadership roles, photography, layout, and design. This is a rigorous course that depends on staff members working outside of scheduled class times to meet the demands of individual assignments as well as shared projects. Students are expected to work together to achieve the common goal of newspaper production. Students who join this staff understand that successful journalism involves dedication, hard work, initiative and perseverance.

Prerequisite: Students must have either completed Journalism course, or obtain instructor approval. (*This is a 2+2 class that is articulated with MJC*).

5308/5309 YEARBOOK

GRAD CREDIT: Elective

9th-12th grade

This course is designed for students interested in learning computer publishing, writing and photography skills to be used in the production of the school yearbook. Students must exhibit a sense of responsibility and leadership. Students will be involved in writing, design, sales, computer keyboarding and photography. Students design layouts, write copy and prepare pictures during the first three quarters of the school year. Fundraising is also required. The amount of time spent outside of class is dependent upon staff ability, book content and publishing deadlines. **Prerequisite:** Instructor must approve student placement in the class.

5336/5337 AP PSYCHOLOGY CSU/UC (g)

GRAD CREDIT: Elective

11th -12th grade

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

ENGLISH

4014/4015 ELD 1A ENGLISH (CELDT Level 1)

GRAD CREDIT: English

9th-12th grade

ELD 1A is a beginning course of English language development. The primary focus of this course is on building oral language skills through basic sounds of the alphabet, phonemic awareness, pronunciation skills, and vocabulary development. Students learn fundamentals of acquiring language through listening, speaking, vocabulary development, and reading basic language materials. The course emphasizes formal and informal speaking activities as well as verbal and nonverbal communication skills.

4016/4017 ELD 2A ENGLISH (CELDT Level 2)

GRAD CREDIT: English

9th-12th grade

ELD 2A is the second course of English language development. This is an intermediate skills class where oral language acquisition continues, but the emphasis is on learning English grammar, syntax, and semantics. Students learn sentence and paragraph development with a focus on correct tense, subject/verb agreement, punctuation, and sentence structure. Vocabulary development continues to be an emphasis. Students will continue to read a variety of literary genres.

5312/5313 ELD 1B ENGLISH SUPPORT (CELDT Level 1)

GRAD CREDIT: Elective

9th-12th grade

ELD 1B continues to expand listening, speaking, reading, and writing skills with a greater emphasis on writing and paragraph development. Students continue to acquire the English language through fundamental listening and speaking. Vocabulary development and reading continues to be a fundamental part of the course. Students read a variety of fiction and nonfiction materials and are taught to use graphic organizers and a variety of reading strategies to help them understand the content. The primary focus is on developing reading comprehension through word analysis, fluency, and vocabulary development. Students will continue to develop writing, listening, and speaking skills as they respond to reading materials in a variety of ways.

5314/5315 ELD 2B ENGLISH SUPPORT (CELDT Level 2)

GRAD CREDIT: Elective

9th-12th grade

ELD 2B has a focus on reading comprehension. Students read a variety of fiction and nonfiction materials and are taught to use graphic organizers and a variety of reading strategies to help them understand the content. The primary focus is on developing reading comprehension through word analysis, fluency, and vocabulary development. Students will continue to develop writing, listening, and speaking skills as they respond to reading materials in a variety of ways.

MATHEMATICS

4168/4169 P INT. MATHEMATICS I CSU/UC (c)

GRAD CREDIT: Math

9th–12th grade

Students in Mathematics I formalize and extend the mathematics learned in Math 7 and 8. Through both content standards and math practices, students learn concepts and skills in the critical areas of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. This course meets the California high school graduation requirement for completion of Algebra I.

4176/4177 P ACCELERATED MATHEMATICS I CSU/UC (c)

GRAD CREDIT: Math

9th grade

Students in Advanced Mathematics I formalize and extend the mathematics learned in Math 7 and 8 at an advanced progression. Through both content standards and math practices, students learn concepts and skills in the critical areas of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Students deeply analyze the concepts and skills necessary for placement in AP Calculus upon successful completion of the Advanced Mathematics I through Advanced Mathematics III course sequence. **Prerequisite:** Teacher recommendation.

4170/4171 P INT. MATHEMATICS II CSU/UC (c)

GRAD CREDIT: Math

10th–12th grade

Students in Mathematics II extend the mathematics concepts and skills covered in Mathematics I. Through both content standards and math practices, students deepen learning of concepts and skills in the critical areas of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.

Prerequisite: Passed Int. Math I with a C or better.

4178/4179 P ACCELERATED MATHEMATICS II CSU/UC (c)

GRAD CREDIT: Math

10th grade

Students in Advanced Mathematics II extend the mathematics concepts and skills covered in Advanced Mathematics I. Through both content standards and math practices, students deepen learning of concepts and skills in the critical areas of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Students learn through deep analysis of the concepts and skills necessary for placement in AP Calculus upon successful completion of the Advanced Mathematics I through Advanced Mathematics III course sequence. **Prerequisite:** Passed Accelerated Math I with a C or better

4172/4173 P INT. MATHEMATICS III CSU/UC (c)

GRAD CREDIT; Math

11th- 12th grade

Students in Integrated Mathematics III complete the learning of the mathematics concepts and skills studied in Integrated Mathematics I and Integrated Mathematics II. Through both content standards and math practices, students solidify learning of concepts and skills in the critical areas of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.

4180/4181 P ACCELERATED MATHEMATICS III CSU/UC (c)

GRAD CREDIT; Math

11th grade

Students in Accelerated Integrated Mathematics III extend the mathematics concepts and skills studied in Accelerated Integrated Mathematics II. Through both content standards and math practices, students deepen learning of concepts and skills in the critical areas of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Students learn through deep analysis of the concepts and skills necessary for placement in AP Calculus upon successful completion of the Accelerated Integrated Mathematics I through Accelerated Integrated Mathematics III course sequence.

4142/4143 P ALGEBRA II CSU/UC (c)

GRAD CREDIT: Math

9th–12th grade

This standards-based course involves the study of complex numbers, sequences and series, the binomial theorem, conic sections, exponential and logarithmic functions. This is an expansion of skills learned in Algebra I and Geometry.

Prerequisite: Passed both semesters of Algebra I and Geometry with a C or better.

MATHEMATICS

4144/4145 P FINITE MATH CSU/UC (c)

GRAD CREDIT Math

11th-12th grade

Topics covered will include systems of equations and matrices, linear inequalities, linear programming, linear equations and functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, mathematics of finance, probability and basic applied trigonometry. **Prerequisite Required:** Course: Passed Algebra I, Geometry and Algebra II with a C or better.

4146/4147 P PRE-CALCULUS CSU/UC (c)

GRAD CREDIT: Math

10th-12th grade

This course consists of a variety of standards from Linear Algebra, Trigonometry, and Mathematical Analysis to prepare students for AP Calculus or college calculus. This course also prepares students for studies in the sciences, computers, and engineering. **Prerequisite:** Passed both Geometry and Algebra II with a C or better.

4148/4149 AP CALCULUS (weighted GPA) CSU/UC (c)

GRAD CREDIT: Math

11th-12th grade

This course is designed for college-preparatory students planning to enter the fields of engineering, economics, life sciences, mathematics, physical science, and others. Topics of study include: limits, differentiation, integration, logarithmic functions, trigonometric functions and more. Students are expected to take the Advanced Placement exam at the end of the year to earn college credit for this course. **Prerequisite:** Passed Pre-Calculus with a C or better and AP contract signed by student and parent.

4150/4151 AP STATISTICS (weighted GPA) CSU/UC (c)

GRAD CREDIT: Math

11th-12th grade

This course is designed for college-preparatory students to introduce them to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics of study include: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students are expected to take the Advanced Placement exam at the end of the year to earn college credit for this course.

Prerequisite: Passed Algebra II, Geometry or Accelerated Math 2 with a C or better and AP contract signed by student and parent.

MODERN LANGUAGE

4400/4401 P SPANISH I CSU/UC (e)

GRAD CREDIT: Fine Art or Modern Lang 9th–12th grade

Spanish I is an academic, college preparatory elective which requires daily attendance, verbal and written participation and reading comprehension. Students are required to communicate in the target language in both small groups and individually through listening and speaking activities. The teacher will use target language in both lecture and discussion. In order to succeed, students must commit to completing daily homework assignments as well as devoting a daily minimum of 20 minutes, outside of class, studying vocabulary and grammar concepts. Students will make connections and comparisons between English and the target language. **Prerequisite: It is highly recommended that all students taking Spanish I possess a solid foundation of grammatical concepts in English, the ability to communicate verbally, as well as a desire to explore another culture.** (Note: Spanish I is not recommended for students who speak Spanish at home or who have had constant exposure to the Spanish language. Therefore, students who speak Spanish at home will not be placed in Spanish I).

4402/4403 P SPANISH II CSU/UC (e)

GRAD CREDIT: Fine Art or Modern Lang 9th–12th grade

Spanish II is an academic college preparatory elective which emphasizes communication, culture, and comparisons of language and connections across curriculums and communities. It is an intense academic elective which requires daily attendance and class participation, including performing within a classroom setting using the target language. The student is exposed to more Spanish by the teacher, his/her peers and listening/speaking activities. Each student is expected to dedicate at least 30 minutes outside of class to homework, practice and study time. **Prerequisite: Successful completion of Spanish I with a grade of C or better, recommendation by teacher or placement through exam.**

4404/4405 P SPANISH III CSU/UC (e)

GRAD CREDIT: Fine Art or Modern Lang 10th–12th grade

This is a rigorous college prep course which applies and extends the grammatical and cultural concepts taught in Spanish II. Students will be required to communicate exclusively target language and to make connections and comparisons between Hispanic cultures and their own. There will be projects where the students will be required to draw upon community and technological resources for their presentations. Attendance, participation and completion of homework are necessary components for successful completion of the course. **Prerequisite: Successful completion of Spanish II with a grade of C or better, recommendation by teacher or placement through exam.**

4406/4407 P SPANISH SPEAKERS II CSU/UC (e)

GRAD CREDIT: Fine Art /Mod Lang 9th–12th grade

This course is designed for Spanish speaking students who desire to enrich their language skills by continuing to develop their listening, speaking, reading and writing abilities. In this course the students will be exposed to a variety of literature genres from the Spanish speaking world. Students will be introduced to the diverse literature written in Spanish through a thematic approach that will provide them with the opportunity to experience the true purpose of literature. Through carefully designed activities and vocabulary work, the students are provided with the motivation and means to express their own thoughts, experiences and reflections. **Prerequisite: This course is open to any native speaker of Spanish who already fluently speaks and comprehends the spoken Spanish language and is placed by exam.**

4408/4409 P SPANISH SPEAKERS III CSU/UC (e)

GRAD CREDIT: Fine Art /Mod Lang 10th–12th grade

This course is designed for Spanish speaking students who desire to continue to enrich their language skills with an emphasis on their reading and writing skills. This course will provide a comprehensive grammar review as well as an analysis of literature written in Spanish. Throughout the class the students will be provided with the means to properly analyze literature in written form. **Prerequisite: This course is open to any native speaker of Spanish who fluently speak and comprehend the spoken Spanish language and is placed by exam or successful completion of Spanish for Spanish Speaker II with a grade of C or better or by teacher recommendation.**

MODERN LANGUAGE

4410/4411 AP SPANISH LANGUAGE and CULTURE (weighted GPA) CSU/UC (e)

GRAD CREDIT: Fine Art /Mod Lang 10th-12th grade

The AP Spanish Language course is designed to be an advanced level college/university Spanish course. It encompasses oral skills, reading, comprehension, grammar, and composition. Students will be expected to take the AP Spanish Language Examination in the spring of the course year. **Prerequisite: AP contract signed by student and parent and successful completion of Spanish III or Spanish for Spanish Speakers III with a grade of C or better or by teacher recommendation.**

4412/4413 AP SPANISH LITERATURE and CULTURE (weighted GPA) CSU/UC (e)

GRAD CREDIT: Fine Art /Mod Lang 11th-12th grade

The AP Spanish Literature course is designed to be an advanced level college/university Spanish course. The course furthers the study of culture, history and literature. There is a strong emphasis on analysis, composition and research. Students will be expected to take the AP Spanish Literature Examination in the spring of the course year. **Prerequisite: AP contract signed by student and parent, completion of AP Spanish Language with a C or better, or by teacher recommendation.**

PHYSICAL EDUCATION

5002/5003 FROSH P.E.

GRAD CREDIT: P.E.

9th grade

This course is designed to present students with a balance of individual and team activities, with emphasis placed on the development of sound skill fundamentals and the “why’s” and “how’s” of movement. Students will participate in the following activities: football, ultimate frisbee, lacrosse, pickleball, physical fitness, soccer, basketball, volleyball, softball, hockey and fitness timed runs. The primary goals of this class are: fitness, social skills, skill development and activity. Students will be prepared for the physical fitness testing required by the state department of education.

5004/5005 P.E.

GRAD CREDIT: P.E.

10th–12th grade

This program provides activities and games according to the needs and likes of the class. Physical fitness is emphasized with a vigorous exercise program prior to activities which include pickle ball, football, soccer, fitness, volleyball, softball, hockey, basketball and fitness timed runs.

5006 TEAM SPORTS

GRAD CREDIT: P.E.

9th–12th grade

This course is for students who participate in a sport offered through the CVHS athletic program. Students can earn 5 credits for each sport, but not more than 10 credits per year. This course is offered credit only (will not affect GPA). If a student does not complete the sport, he/she will not earn the 5 credits for that sport. A 3-sport athlete will earn a maximum of 10 credits per year. All credits related to Team Sports will be applied to the student’s PE graduation credit for CVHS. Prerequisite: Must be on a CVHS athletic team and complete the season to earn credit.

5007/5008 WEIGHT TRAINING

GRAD CREDIT: P.E.

9th–12th grade

This course teaches students the basic principles of strength training. They will learn a variety of techniques to improve muscular strength, muscular endurance, cardiorespiratory endurance and flexibility. Students will participate in weight workouts, running, plyometrics, aerobic exercises and stretching.

5009/5010 ADVANCED WEIGHT TRAINING

GRAD CREDIT: P.E.

10th–12th grade

This course will build on the concepts and techniques learned in Weight Training. Topics of study will include specialized techniques in lifting, power lifting, body building, plyometrics and basic anatomy and physiology. An individualized strength training program will be developed for each student.

Prerequisite: Successful completion of Weight Training, or teacher approval.

5000/5001 AEROBICS

GRAD CREDIT: P.E.

10th–12th grade

Aerobics and conditioning choreographed to music to incorporate steps to improve cardiovascular endurance, muscular endurance, muscle tone, flexibility and rhythmic coordination. In addition, the course will incorporate strength and conditioning exercises that include high intensity interval training, progressive strength training, and a proficient understanding of the benefits of diet and exercise. The overall goal and activities incorporated into the Aerobics and Conditioning course will allow the students an opportunity to use and develop a variety of skills beyond the physical element of a PE class, such as listening and speaking, reading and writing. In doing so, the course would incorporate activities and lessons that address the literacy standards and align with the CUSD vision statement, All students academically prepared to achieve their full potential, supported by and contributing to the community.

PHYSICAL EDUCATION

4522/4523 P DANCE PRODUCTION I CSU/UC (f)

GRAD CREDIT: Fine Art or P.E. 9th - 12th grade

Dance Production I focuses on developing technique in a variety of disciplines including: Jazz, Ballet, Modern, Contemporary, hip hop and Ethnic dance. Elements of dance composition will be explored through choreography assignments that culminate in performance. A strong emphasis is placed on developing skills in dance technique and terminology. The history of dance and development of critical analysis will be included in the program, along with the health-based curriculum. Students will be involved in all aspects of a performance: ticket sales, props, costume design, fundraising, and dance choreography.

4524/4525 P DANCE PRODUCTION II CSU/UC (f)

GRAD CREDIT: Fine Art or P.E. 10th - 12th grade

Intermediate Dance will build on the skills and terminology that students learned in Dance Production I. Dance Production II focuses on further developing technique in a variety of disciplines including Jazz, Ballet, Modern, Contemporary, Hip Hop, and Ethnic Dance. Elements of dance composition will be explored through more advanced choreography assignments that culminate in performance. A strong emphasis is placed on further developing skills in dance technique and terminology. The history of dance and development of critical analysis will be included in the program, along with the health-based curriculum. Students are required to participate in the Spring Dance Showcase at the end of the year. Students will be involved in all aspects of a performance: tickets, sales, props, costumes, fundraising, and dance choreography. **Prerequisite: Successful completion of Dance Production I or instructor approval.**

4526/4527 P ADVANCED DANCE PRODUCTION CSU/UC (f)

GRAD CREDIT: Fine Art or P.E. 10th - 12th grade

Dance Production is an advanced class for students who are interested in performing and pursuing dance for personal interest, further academic preparation, or for a possible career in dance or a dance-related field. This course will continue to build on the skills that students work on in Intermediate Dance. Dance Production focuses on perfecting technique in a variety of disciplines including Jazz, Ballet, Modern, Contemporary, Hip Hop, and Ethnic Dance. Elements of dance composition will be explored through advanced choreography assignments that culminate in performance. A strong emphasis is placed on perfecting skills in dance technique and terminology. The history of dance and development of critical analysis will be included in the program, along with the health-based curriculum. Students are required to participate in the Winter and Spring Dance Showcases. Students will be involved in all aspects of a performance: tickets, sales, props, costumes, fundraising, and dance choreography.

Prerequisite: This course is by audition or teacher recommendation only.

5385/5386 STRENGTH AND FITNESS (ZERO PERIOD)

GRAD CREDIT: P.E.

9th - 12th grade

This course is designed for students to learn about strength and fitness. Students will be participating in vigorous exercise daily. Students will also learn to monitor their workouts and how to track their own progress. Workouts will vary from high intensity interval training, cardiovascular endurance, strength training and more.

5120 DRIVER EDUCATION

GRAD CREDIT: Elective

9th - 12th grade

The course will present the rules of the road as well as the driving laws for the state of California. Students will have the opportunity to acquire the knowledge and attitudes essential to safe driving. A DMV "Certificate of Completion" will be issued to students earning both a "C" or better for the semester and also passing the final exam. This certificate gives students the ability to take the DMV test for their driver's permit.

5123 HEALTH

GRAD CREDIT: Elective

9th - 12th grade

The course examines the three components of health: mental, physical and social, and how they interrelate and affect one's overall health. Topics of study include but are not limited to: self-esteem, handling emotions, managing stress, human development, nutrition, diseases, AIDs, substance abuse, first aid, and CPR.

SCIENCE

4220/4221 P BIOLOGY CSU/UC (d)

GRAD CREDIT: Life Science 9th–12th grade

This college prep course involves learning about living organisms through the study of cellular organization and processes, reproduction, genetics, evolution and ecology. Students will participate in frequent lab activities and be required to complete individual research projects.

4228/4229 P ADVANCED BIOLOGY CSU/UC (d)

GRAD CREDIT: Life Science 9th–12th grade

This accelerated course involves learning about living organisms through the study of structure, interactions, heredity, and evolution. Students will demonstrate understanding and application of learning objectives in frequent written assessments as well as class discussions. In order to be successful in this course, students will need to be self-motivated, persistent learners. Students will develop and demonstrate proficiency in science skills including questioning, modeling, investigating, analyzing and interpreting data, constructing explanations and arguments from evidence, as well as, evaluating and communicating information.

4244/4245 SUSTAINABLE AGRICULTURE BIOLOGY CSU/UC (d)

GRAD CREDIT: Life Science 9th–12th grade

Sustainable Agriculture Biology is a one year course designed to integrate biological science practices and knowledge into the practice of sustainable agriculture. The course is organized into four major sections, or units, each with a guiding question. Unit one addresses the question, What is sustainable agriculture? Unit two, sustainable agriculture fit into our environment? Unit three, What molecular biology principles guide sustainable agriculture? Unit four, How do we make decisions to maximize sustainable agricultural practices within a functioning ecosystem? Within each unit specific life science principles will be identified with agricultural principles and practices guiding the acquisition of this knowledge, culminating in the development of a sustainable farm model and portfolio of supporting student research. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

4246/4247 P ADVANCED AG BIOLOGY CSU/UC (d)

GRAD CREDIT: Life Science 9th–12th grade

This accelerated rigorous course is designed for Honors/Gate agriculture students who are college-bound. This course involves in-depth study of cellular organization and processes, reproduction of plants and animals, genetics, evolution, physiology of agriculture plant and animals and ecology. Emphasis will be placed on investigation, analysis, and critical thinking of course contents through labs and agriculture research projects. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

4230/4231 P CHEMISTRY CSU/UC (d)

GRAD CREDIT: Physical Science 10th–12th grade

This college prep course will cover the following topics: scientific measurement, atomic theory, chemical reactions, chemical equations, properties of matter, energy changes in reactions, solubility, and acid-base reactions. **Prerequisite:** Biology and concurrent enrollment in Algebra I.

4224/4225 P ADVANCED CHEMISTRY CSU/UC (d)

GRAD CREDIT: Physical Science 10th–12th grade

This course offers a solid foundation in classical chemistry and is directed toward college bound students who intend to pursue a technical career. Topics of study will include: scientific measurement, atomic theory, stoichiometry, state of matter, kinetic molecular theory, the periodic table, solution, solubility, ions, reaction rates, acid-base equilibrium, energy effects in chemical reactions, oxidation-reduction reactions, and electrochemistry. **Prerequisite:** Algebra I and Biology and Instructor Approval.

SCIENCE

5404/5405 AGRICULTURE AND SOIL CHEMISTRY CSU/UC (d) GRAD CREDIT: Physical Science 10th-12th grade

This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research project to be conducted throughout the first semester of the course. Additionally, students will develop a soil management plan for agricultural producers, using the content learned throughout the course. Due to the co-curricular nature of FFA and SAE (Supervised Agricultural Experience) students will be required to participate in both FFA activities and SAE involvement, both of which are graded components of the course.

4238/4239 P PHYSICS CSU/UC (d) GRAD CREDIT: Physical Science 10th-12th grade

Explore the mysteries, magic, and myths surrounding motion, Newton's laws, momentum, energy, heat, electricity, magnetism, waves, sounds, light, and wave optics. Hands-on laboratory work, classroom discussions and demonstrations are the core of the course. Some math is used, but the emphasis is placed on conceptual understanding and real world applications. This course should be elected by anyone planning to go to college. **Prerequisite:** Algebra I or equivalent and Biology.

4240/4241 PH PHYSICS (weighted GPA) CSU/UC (d) GRAD CREDIT: Physical Science 11th-12th grade

This rigorous course offers an in-depth study of motion, forces, momentum, energy, rotation, thermodynamics, electricity, circuits, electromagnetism, waves, ray optics, and modern physics. Hands-on laboratory work, demonstrations, computer simulations, and a semester project are the core of the course. Mathematical analysis of these concepts will be emphasized. This course is designed for students pursuing careers in science, engineering, or mathematics.

Prerequisite: Biology and concurrent enrollment in Pre-Calculus or equivalent

4236/4237 P ANATOMY AND PHYSIOLOGY CSU/UC (d) GRAD CREDIT: Life Science 11th-12th grade

This course is a study of the human body as a whole. It is intended to give the student a continued emphasis in science and the scientific process in the context of the human body. The course is divided into two sections: anatomy—the study of body part location and relationship to the whole and physiology—the study of the function of the parts of the systems which make the body work. Dissection of preserved animals is a requirement of this course. **Prerequisite:** Completion of Biology and Chemistry with a C or better.

4226/4227 AP BIOLOGY (weighted GPA) CSU/UC (d) GRAD CREDIT: Life Science 11th-12th grade

The AP Biology course covers the topics that are regularly covered in a college level biology course, including molecules and cells, heredity and evolution and organisms and populations. The textbook is a college-level text and the lab work is equivalent to that done in a college setting. This course is designed to be taken by students who have successfully completed both high school biology and chemistry and who have a good work ethic when it comes to their studies. At the completion of the course, students take the AP Biology exam, which could earn them college credits.

Prerequisite: Successful completion of Biology and Chemistry and AP contract signed by student and parent.

4232/4233 AP CHEMISTRY (weighted GPA) CSU/UC (d) GRAD CREDIT: Physical Science 11th-12th grade

AP Chemistry is the equivalent of an introductory college-level chemistry course in both the content and laboratory work. The skills and knowledge attained in the college prep chemistry course provides the opportunity to develop a deeper understanding of chemistry and the ability to think critically on problem solving. The student goals will be: to design, conduct and analyze investigation questions related to chemistry, to develop an understanding of composition and properties of matter, states of matter and chemical reactions. At the completion of the course, students take the AP Chemistry exam, which could earn them college credits. **Prerequisite:** Completion of Biology and Chemistry with a C or better.

SCIENCE

1972/1973 AP ENVIRONMENTAL SCIENCE CSU/UC (d)

GRAD CREDIT: Life Science

11th -12th grade

The **AP Environmental Science** course is designed to be the equivalent of an introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the concepts and laboratory techniques required to understand the natural world, to identify and analyze environmental problems both natural and human-made, and to examine alternative solutions for solving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study including Earth science, biology, chemistry, and physics. The textbook is a college-level text and the lab work is equivalent to that done in a college setting. This course is designed to be taken by students who have successfully completed both high school biology and chemistry and who have a good work ethic when it comes to their studies. At the completion of the course, students take the AP exam, which could earn them college credits. **Prerequisite: Completion of Biology and Chemistry with a C or better.**

SOCIAL SCIENCE

4320/4321 P WORLD HISTORY CSU/UC (a)

GRAD CREDIT: Social Studies 10

10th grade

This survey course of history emphasizes the development of modern world history with an emphasis in the 20th century, for the purpose of showing differing political, social, economic, and religious concepts.

4324/4325 AP EUROPEAN HISTORY (weighted GPA) CSU/UC (a)

GRAD CREDIT: Social Studies 10 10th grade

Recommended for the four-year college bound student, the content is more comprehensive than the standard World History curriculum. Students should expect more outside reading and writing assignments. The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping today's world. The goals of this course are to develop: (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. This is a college level course and students scoring a three or better on the AP Exam can earn college credits. **Prerequisite:** AP contract signed by student and parent.

4326/4327 P U.S. HISTORY CSU/UC (a)

GRAD CREDIT: Social Studies 11 11th grade

This survey course emphasizes modern United States history, focusing on the twentieth century. Students should expect regular homework and outside readings. In addition, semester projects may be required of all history students. These long-term projects enable students to utilize the skills of a historian---research a topic, analyze historical evidence, arrive at conclusions, and express historical understanding in writing.

4332/4333 AP HUMAN GEOGRAPHY CSU/UC (g)

GRAD CREDIT: Elective

9th grade

AP Human Geography is a yearlong course that focuses on the distribution, processes, and effects of human populations on the planet. The course provides a systematic study of human geography, including the following topics: Nature of and Perspectives on Geography, Population, Cultural Patterns and Processes, Political Organization of Space, Agricultural and Rural Land Use, Industrialization and Economic Development, Cities and Urban Land Use. The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students will employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Students will also gain knowledge of the methods and tools geographers use in their science and practice, such as interpreting maps, data sets, and geographic models, GIS, aerial photographs, and satellite images. The course teaches the use of spatial concepts and landscape analysis to examine human organization of space. The course teaches spatial relationships at different scales ranging from the local to the global. The intent is to challenge young students with a college level social science course. Students who take and earn a "3" or better on the AP Human Geography exam may earn college credit. **Prerequisite:** C or better in 8th grade English & AP contract signed by student and parent.

4328/4329 AP U.S. HISTORY CSU/UC (a)

GRAD CREDIT: Social Studies 11 11th grade

Recommended for the four-year college bound student, the content is more comprehensive than the standard U.S. History curriculum. Students should expect more outside reading and writing assignments. AP U.S. History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and issues in U.S. history. The goals of this course are to develop: (a) an understanding of some of the principal themes in modern American history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. This is a college level course and students scoring a three or better on the AP Exam can earn college credits. **Prerequisite:** AP contract signed by student and parent.

SOCIAL SCIENCE

4312 P ECONOMICS CSU/UC (g)

GRAD CREDIT: Social Studies 12 12th grade

This semester course compares the American economic system to others around the world. Students will investigate microeconomics such as supply and demand in the open market, business organizations and unemployment; macroeconomics, the operation of large economic units, will also be examined along with international economic concepts. This course is a graduation requirement during senior year.

4313 P PRINCIPLES OF DEMOCRACY CSU/UC (a)

GRAD CREDIT: Social Studies 12 12th grade

This semester course will present the foundation of the American government. Students will learn how the government is structured and how it works. Topics of study will include: the Constitution and the Bill of Rights, the three branches of the government and how they work, federalism (how the national, state, and local governments work together), and how our government differs from others around the world. This course is a graduation requirement during senior year.

4330/4331 AP AMERICAN GOVERNMENT (weighted GPA) CSU/UC(a) **GRAD CREDIT: Soc. Studies 12 12th grade**

This is a college-level course designed to prepare the students for the AP exam in the spring and to give them a thorough understanding of the constitutional underpinnings of the U.S. Government. Topics include political beliefs and behaviors, political parties, interest groups, mass media, institutions of national government, public policy, civil rights and civil liberties. Students can expect extensive reading and frequent writing assignments. **Prerequisite:** AP contract signed by student and parent.

SPECIAL EDUCATION

4000/4001 ENGLISH I ESSENTIALS

GRAD CREDIT: English

9th grade

Emphasized objectives are reading and writing competence through literature studies according to Common Core state standards. The course covers the following units: organizational strategies, writing conventions, vocabulary development, spelling, and development of effective writing techniques. This class parallels the concepts taught in the regular education English courses.

4002/4003 ENGLISH II ESSENTIALS

GRAD CREDIT: English

10th grade

Emphasized objectives are reading and writing competence through literature studies according to Common Core state standards. The course covers the following units: organizational strategies, writing conventions, vocabulary development, spelling, and development of effective writing techniques. This class parallels the concepts taught in the regular education English courses.

4004/4005 ENGLISH III ESSENTIALS

GRAD CREDIT: English

11th grade

Emphasized objectives are reading and writing competence through literature studies according to Common Core state standards. The course covers the following units: organizational strategies, writing conventions, vocabulary development, spelling, and development of effective writing techniques. This class parallels the concepts taught in the regular education English courses.

4006/4007 ENGLISH IV ESSENTIALS

GRAD CREDIT: English

12th grade

Emphasized objectives are reading and writing competence through literature studies according to Common Core state standards. The course covers the following units: organizational strategies, writing conventions, vocabulary development, spelling, and development of effective writing techniques. This class parallels the concepts taught in the regular education English courses.

4206/4207 PHYSICAL SCIENCE ESSENTIALS

GRAD CREDIT: Physical Science 9th–12th grade

This course provides initial exposure to physics, chemistry, astronomy, geology, meteorology and oceanography.

4208/4209 LIFE SCIENCE ESSENTIALS

GRAD CREDIT: Life Science 9th–12th grade

This course is a survey approach to the study of biology.

4306/4307 WORLD HISTORY ESSENTIALS

GRAD CREDIT: Social Studies 10 10th–12th grade

This course of history emphasizes the development of modern world history with an emphasis on the 20th century, for the purpose of showing different political, social, economic and religious philosophies which exist between cultures. The course includes a basic study of geography emphasizing man's relationship with his natural environment. This course exposes students to grade-level standards at a modified reading level.

4308/4309 U.S. HISTORY ESSENTIALS

GRAD CREDIT: Social Studies 11 10th–12th grade

This course emphasizes modern United States history, focusing on the 20th century. This class covers topics including: the first people to inhabit the U.S., the acquisition of the 50 states, changes in the society, the new government developed by the Founding Fathers and how the major wars changed the course of history.

SPECIAL EDUCATION

4310/4311 CIVICS ESSENTIALS

GRAD CREDIT: Social Studies 12 10th-12th grade

This course will present the foundations of the American government and economics. Students will learn how the government is structured and how it works. Topics of study will include: the Constitution and the Bill of Rights, the three branches of the government and how they work, federalism (how the national, state and local governments work together), and how our government differs from others around the world. Economics compares the American economic systems including supply and demand, business organizations, unemployment, etc.

4152/4153 MATH I ESSENTIALS

GRAD CREDIT: Math 9th-12th grade

This course is the first of four math courses designed meet the one year Algebra I requirement by extending the content standards traditionally taught in a one year Algebra class over a four year course sequence. This course focuses on the first quarter content standards and math practices covered in the Mathematics I course over the period of one school year.

4154/4155 MATH II ESSENTIALS

GRAD CREDIT: Math 9th-12th grade

This course is the second of four math courses designed to meet the one year Algebra I requirement by extending the content standards traditionally taught in a one year Algebra class over a four year course sequence. This course focuses on the second quarter content standards and math practices covered in the Mathematics I course over the period of one school year.

4160/4161 P MATH I A

GRAD CREDIT: Math 9th-12th grade

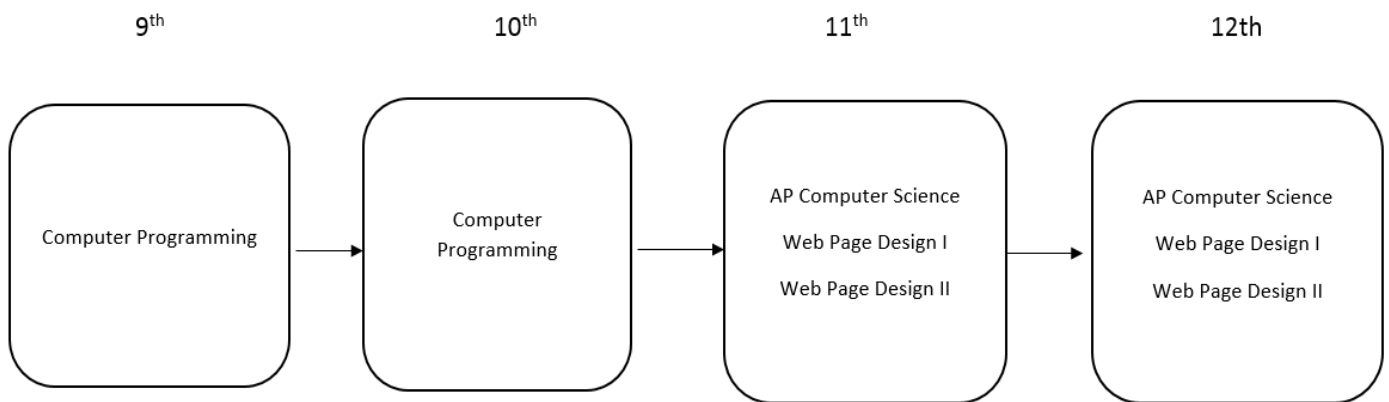
This course focuses on the first semester content standards and math practices taught in the Mathematics I course over the period of one school year.

4162/4163 P MATH I B

GRAD CREDIT: Math 9th-12th grade

This course focuses on the second semester content standards and math practices taught in the Mathematics I course over the period of one school year.

Computer Programming Pathways



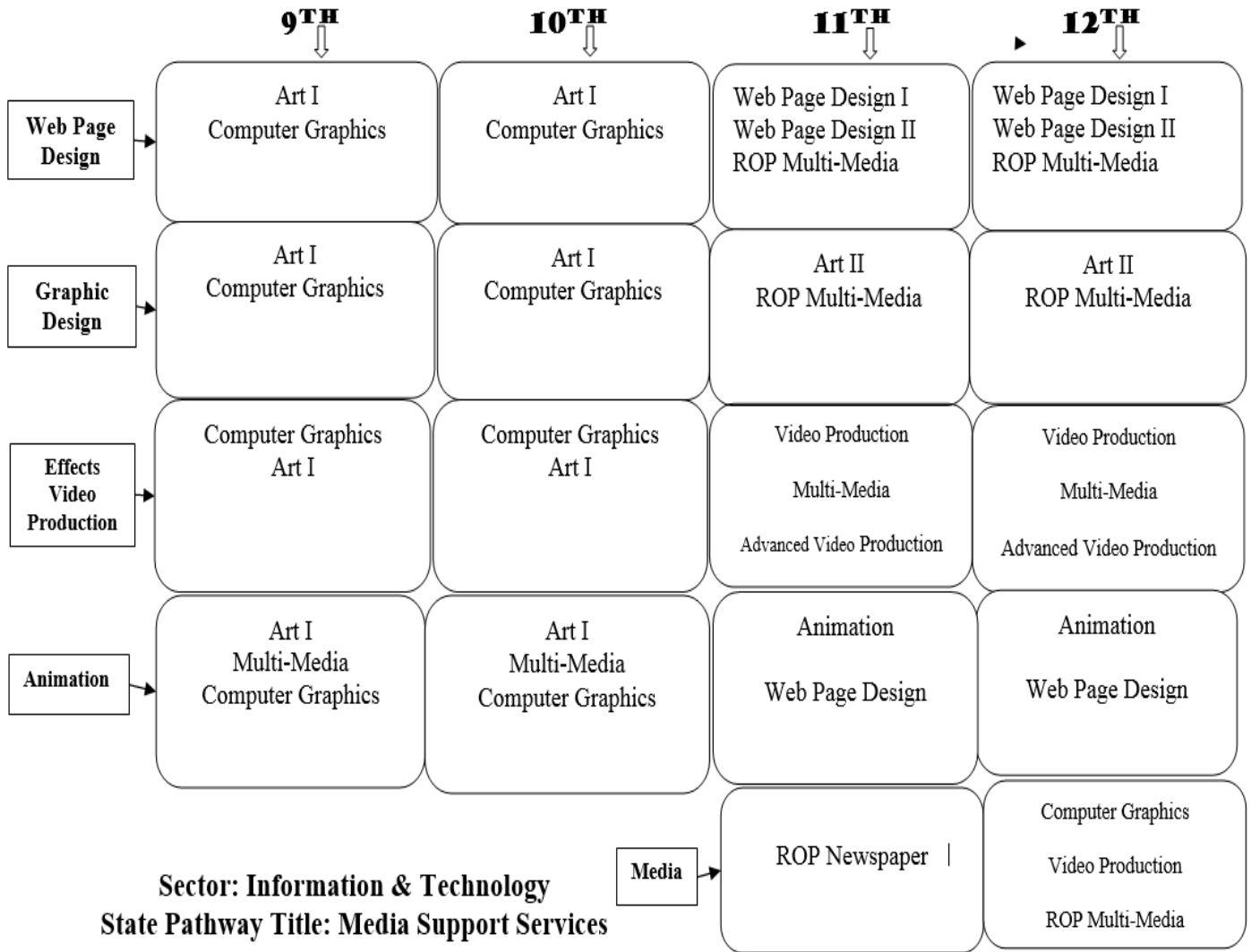
Optional Courses: Intro to Engineering (Robotics)

Sector: Information and Technology

State Pathway Title: Programming & System Development

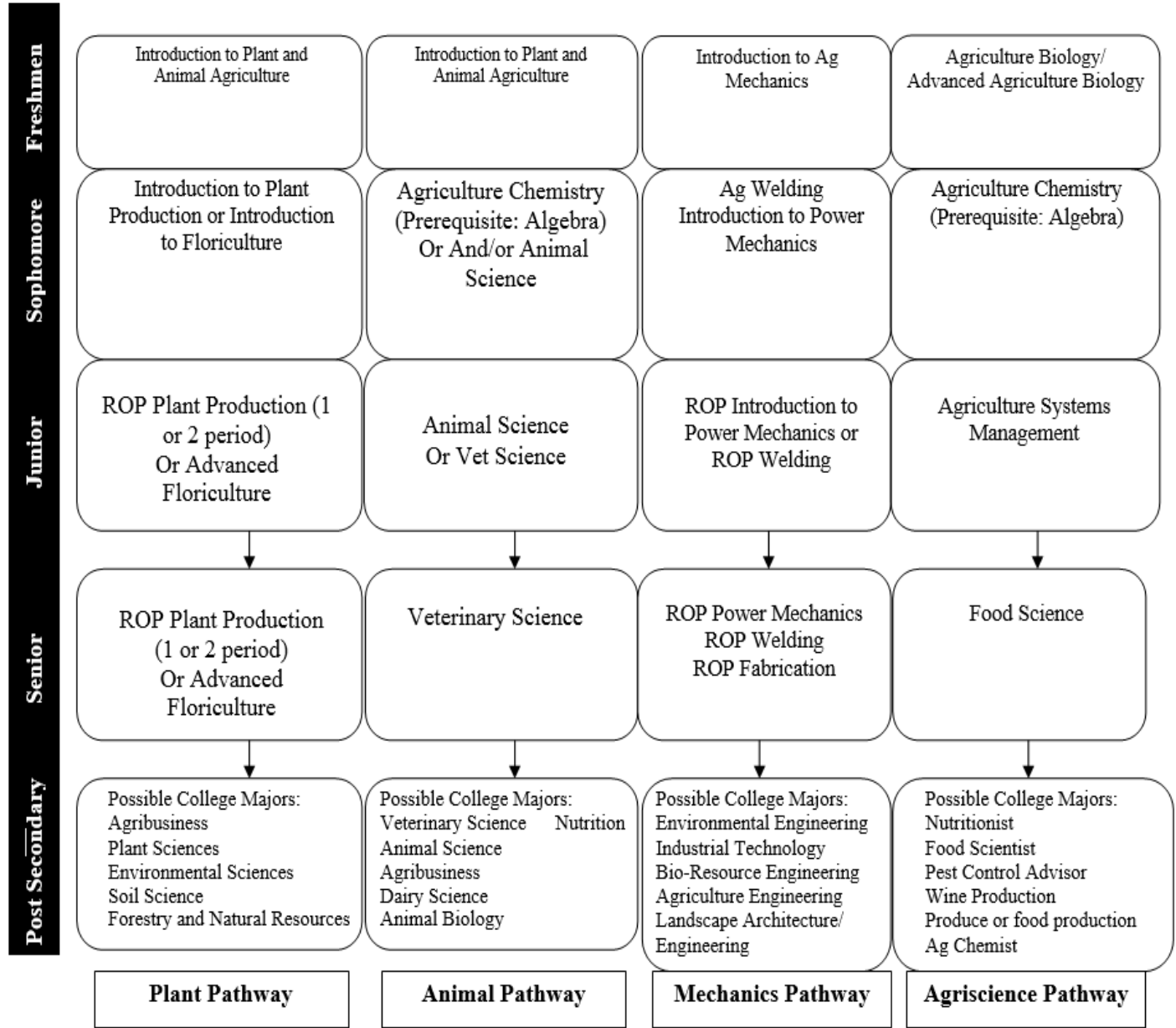
This is a sample plan. For more Information see your Learning Director

Visual and Performing Arts Pathways

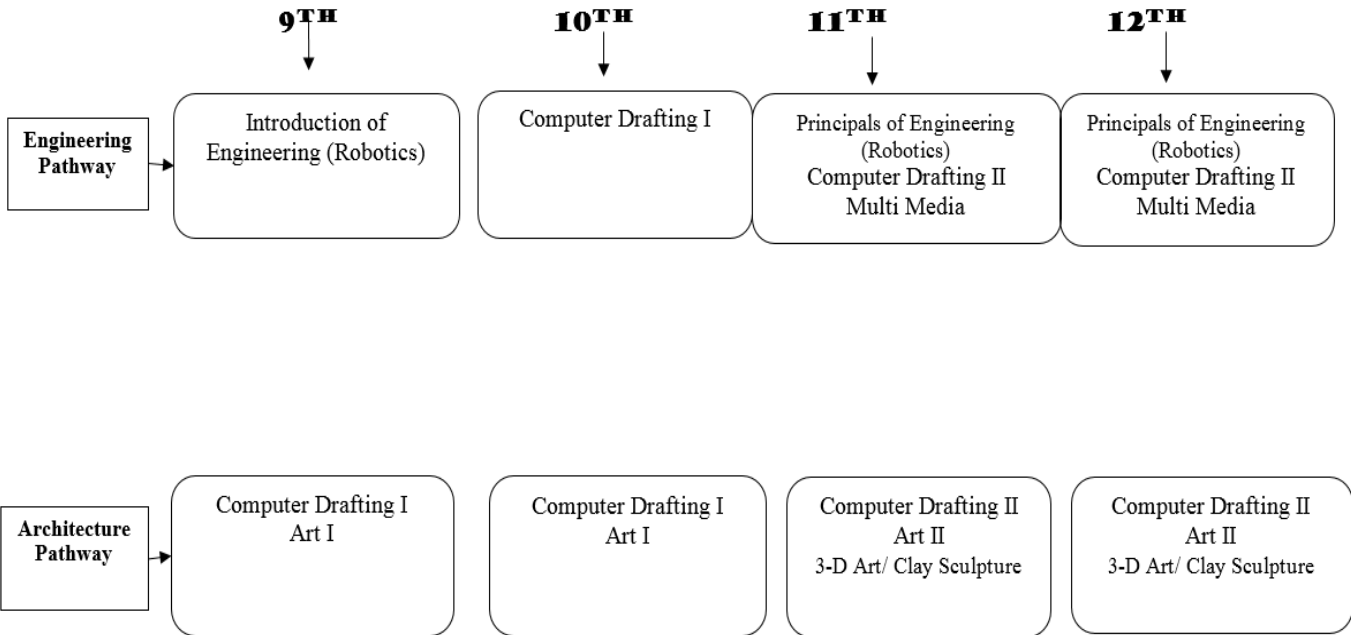


This is a sample Plan. For more information see your Learning Director

Agriculture Pathways



Engineering and Architecture Pathway



Sector: Manufacturing and Production Development

State Pathway Title: Integrated Graphics Technology

Optional Courses
 Advanced 3D Art/Clay
 AP Studio Art
 Computer Graphics

CENTRAL VALLEY HIGH SCHOOL

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through:

Academic Rigor

Personal Relevance

Meaningful Relationships

Thoughtful Reflection