

Poway High Course Catalog 2011-2012

AGRICULTURE

AGRICULTURAL SCIENCE 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art

Meets UC/CSU "G" requirement

Agriculture Science 1-2 is designed as an entry level course for basic animal science, including health nutrition, and management. Course also covers an introduction to basic plant science including the growing and propagation of plants. Leadership development, FFA, and record keeping will be covered so the student has many opportunities to succeed at any level.

AGRICULTURAL BIOLOGY 1-2

Grade Level: 10-12

Recommended Prerequisite: Agricultural Science 1-2

PHS: Life Science

Meets UC/CSU "D" or "G" requirement

This course emphasizes biological processes from cells to organisms to ecosystems. Students will be actively engaged in laboratory investigations, concept activities and projects. A major part of the course involves learning the scientific method through research and experimental technique. A research paper and long-term experiment may be required. These topics will be taught from an agricultural perspective using livestock species, soil science, fertilizers, crops, and natural resources. Through these investigations, students will be able to relate scientific principles to themselves and to the world around them. Instruction is also given in leadership, citizenship, and project programs through department activities.

VETERINARY SCIENCE 1-2

Grade Level: 10-12

Prerequisite: None

PHS: Practical Art

Meets UC/CSU "G" requirement

This course is designed to provide students with entry-level skills in animal health occupations. Instruction includes small and large animal: management, disease and parasite control, nutrition, restraint, first aid, laboratory testing, anatomy and physiology and veterinary office procedures. Leadership activities, FFA and record keeping will be covered.

APPLIED ACADEMICS & TECHNOLOGY

3D COMPUTER ANIMATION 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

3D Computer Animation 1-2 focuses on the art of 3D computer animation. Students will learn the basics of the principles of animation, design, animation software (3D Studio Max or Softimage|XSI), modeling, storyboard development, script writing, character development, and application of these skills to be successful. Students will work in a production group to create a small-animated movie. It provides students with the opportunity to self-express and communicate their own ideas through the study of character design, backgrounds, props, digital painting, special effects, scene development, storyboard development and script writing/story writing, with the application to aesthetic theories. Students will work individually and in teams to create and plan an animated short story, through story design and implementation to a hand drawn storyboard, character development, and finally computer animation. They will analysis formally and aesthetically their group and individual work. Character development will concentrate on brining life to the character using drawings and clay model studies created by the student. Students will experience working with different mediums to create storyboards and to design their own animated scenes and short stories.

3D COMPUTER ANIMATION 3-4

Grade Level: 10-12

Prerequisite: 3D Computer Animation 1-2

PHS: Practical Art or Fine Art

3D Computer Animation 3-4 is a studio class providing students with the opportunity to self-express and communicate their own ideas through the study of 3D Computer Animation focusing on design, backgrounds, props, digital painting, special effects, scene development, storyboard development and script/story writing, by creating a feature animation, a video game, scientific visualization, historical reconstruction, and so on. Students will choose an area of focus within the computer animation field and delve into that area. They will focus in greater depth on bringing life to their character and telling their story in a better format following video techniques and principles.

3D COMPUTER ANIMATION 5-6

Grade Level: 11-12

Prerequisite: 3D Computer Animation 3-4

PHS: Practical Art or Fine Art

3D Computer Animation 5-6 is a studio class as a continuation of 3D Computer Animation 3-4 with the addition for students to receive direction from a mentor in the field or in conjunction with an internship through a local business/industry partner. The course will provide students with a valuable insight to understanding the demands that are placed upon them in the workforce. The course will continue to provide students with the opportunity to self-express and communicate their own ideas through the study of 3D Computer Animation focusing on design, backgrounds, props, digital painting, special effects, scene development, storyboard development and script/story writing, by creating a feature animation, a video game, scientific visualization, historical

reconstruction, and so on. Students will continue to focus on their area of interest within the computer animation field and delve into that area with the help of their mentor or internship.

ARCHITECTURAL DESIGN 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Architectural Design 1-2 focuses on the art of architecture. Students will study the history of architecture and design a set of architectural plans (AutoCAD / Architectural Desktop / ArchiCAD) of their dream home. Students will also create a 3D model of their house. The course includes the study and application of the elements and principles of design, the study of the history of ancient architecture from Catal Huyuk to the Ancient Baroque and its relevant vocabulary and structural devices, and an introduction to basic sketching and technical drawing skills.

ARCHITECTURAL DESIGN 3-4

Grade Level: 10-12

Prerequisite: Architectural Design 1-2

PHS: Practical Art or Fine Art

Architectural Design 3-4 deals with the planning of buildings. The course includes the study and application of the elements and principles of design, the study of the history of architecture in regard to the English Influence in America to Contemporary Trends and its relevant vocabulary and structural devices, and in depth sketching and technical drawing skills to produce a production working set of plans. All students will acquire a knowledge of the evaluation of man's means of building and how this relates to weather, custom, tradition, materials available, and social habits. Skills will be acquired through the process of designing a home (AutoCAD / Architectural Desktop / ArchiCAD), building a model, and surveying a typical site. Sample projects will be given as if the student were the architect and had to meet the county building codes. Students will additionally experience working with different mediums to copy ancient structures and to design their own structures using various construction devices. Technical information and skills are acquired through participation, demonstrations, projects, and guest speakers.

ARCHITECTURAL DESIGN 5-6

Grade Level: 11-12

Prerequisite: None

PHS: Practical Art or Fine Art

Architectural Design 5-6 focuses on the planning of buildings and is a continuation of Architectural Design 3-4 providing direction from an industry partner or mentor. The course will provide students with valuable insight into the field of architecture while experiencing and gaining an understanding of the demands placed upon them in the workforce. The course will continue to apply the principles and elements of design while studying the history of architecture with a focus on current trends from the last 50 years. Students will develop their vocabulary of contemporary and postmodern structural devices while producing a working set of plans. All students will continue to study the evolution of man's means of building and how this relates to weather, custom, tradition, materials available, and social habits. Skills will be acquired through the process of designing a structure, building a model, surveying a typical site, and so on. Students will address and meet the county building codes. Students will create technical artistic presentations through the guidance of their mentor.

AUTO BODY REPAIR

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art

Auto Body Repair/Refinishing provides entry-level skills, upgrading of existing skills, and advanced skills training for people interested in the automotive field. Upon completion, students would be employable as an auto prepper, body mechanic, or auto painter. This course is designed to teach students the basic skills in auto body repairing and painting, including safety; use of tools and equipment; replacement components and trim; metal straightening by hammering, grinding, and sanding; refinishing materials; masking and taping; paints; thinners, and reducers; spraying primers and finish coats; and detailing completed cars. Job-getting/jobkeeping skills are also taught. Students learn the course material through lecture/teacher demonstration (20%), individual/self-directed instruction (20%), and shop/lab experiences (60%). Some of the major equipment/tools/instruments used in class are the air file, air sander, welding machine frame straightener, and basic hand tools required for auto body repair.

AUTO MECHANICS 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art

Auto Mechanics 1-2 is designed to help students learn how automobiles should be serviced (prevention/maintenance of vehicles) and how to adjust various parts of automobiles to get the best possible performance. Emphasis is placed upon developing the students' interest in proper maintenance and proper operation of automobiles and understanding how the various units of the automobile work. Students work on laboratory units and on automobile component disassembly and assembly. They practice making repairs and adjustments. VHS, CDX programs, models, and charts play an important part in the instruction. Introduction to all Automotive Service Excellence (ASE) areas are covered.

AUTOMOBILE ENGINEERING AND DESIGN 1-2

Grade Level: 11-12

Prerequisite: Auto Mechanics 1-2

PHS: Practical Art

Automobile Engineering & Design 1-2 is a hands-on course developing futuristic automobile designs and mock-ups. Students will develop innovative automobile designs using industrial-standard hardware and software. They will construct a mock-up (functional prototype) of their designs and perform engineering testing on the model. This course will utilize the combined technologies of wood, automotive, and engineering. The final project is a miniature functional vehicle.

AUTOMOTIVE TECHNOLOGY

Grade Level: 11-12

Prerequisite: None

PHS: Practical Art

Automotive Technology provides entry-level training in the auto service occupations. Jobs in this field include, but are not limited to: brake repairer, tune-up person, lube person, and smog tester. Areas of instruction included are: brakes, alignment, engine performance, emissions, engine

repair, automatic and manual transmission and air conditioning. Some of the major equipment/tools/instruments the students will use include brake lathes, Allen Smart Scope, distributor machines, EPA, and lubrication equipment.

COMPUTER GRAPHIC ARTS 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

This course is a study in contemporary media. The class is structured around projects emphasizing the art elements of line, shape, color, and texture. It will introduce the student to the principles of design including rhythm, balance, proportions, and variety. Students will develop an appreciation of traditional artistic expression as well as an understanding of the role of contemporary media as a verbal and visual means of communication in today's society.

DIGITAL MEDIA PRODUCTION 1-2

Grade Level: 11-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Students will learn to create short films (vignette's) from idea to inception. This course provides introductory and intermediate training in digital media production. This course covers the following: operation of video cameras, digital video editing equipment, digital audio editing equipment, lighting equipment, multi-track digital recorders, video recorders, compact disc & DVD recorders and rendering. Instruction includes basic development of treatments, storyboarding, script writing, and production concepts. Students will use equipment, which includes Final Cut Pro video & audio editing software. Digidesign Pro-tools, audio editing software, digital video cameras.

DIGITAL MEDIA PRODUCTION 3-4

Grade Level: 11-12

Prerequisite: C or better in Digital Media 1-2

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Students will learn to create advanced short films (vignette's) from idea to inception This course provides advanced training in digital media production. This course covers the following: operation of video cameras, digital video editing equipment, digital audio editing equipment, lighting equipment, multi-track digital recorders, video recorders, compact disc & DVD recorders and rendering. Instruction includes basic development of treatments, storyboarding, script writing, and production concepts. Students will use equipment, which includes Final Cut Pro video & audio editing software. Digidesign Pro-tools, audio editing software, digital video cameras. Advanced students will also be trained in use of jib crane work, advanced text generation, advanced HD film work, and advanced audio engineering.

PHOTOGRAPHY 1

Grade Level: 11-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU “F” requirement

Photography 1 is a class for students wishing to learn about cameras, how to take pictures and how to print their own pictures. Photographic composition, camera techniques, film exposure and use of photographic chemicals is demonstrated. Students will work extensively in the photographic darkroom and will begin to work in a digital environment with *Photoshop*. An adjustable 35mm camera is recommended.

PHOTOGRAPHY 2

Grade Level: 11-12

Prerequisite: Photography 1

PHS: Practical Art or Fine Art

Meets UC/CSU “F” requirement

Earns 3 units of college credit through Palomar College for “B” or better

In Photography 2, students will continue to fine-tune their composition, camera and printing skills learned in Photography 1. In addition they will use a camera for communication, creative expression and fine art presentation of photographs. Imagination and creativity will be stressed. The history of photography as well as the critical evaluation of student photographs will be stressed. In Photography 3-4, advanced skills in creative printing, specialized darkroom techniques, and advanced *Photoshop* and digital printing skills are stressed. Studio photography also becomes an integral part of the curriculum. A digital camera is recommended.

PHOTOGRAPHY 3-4

Grade Level: 11-12

Prerequisite: Photography 1

PHS: Practical Art or Fine Art

Meets UC/CSU “F” requirement

Earns 3 units of college credit through Palomar College for “B” or better

Photography 3-4 emphasizes applications of photography; for example, journalism, magazine articles, offset printing (textbook), electronic schematics, portraiture. This course provides the opportunity for students to explore creative and career opportunities within many different areas.

ADVANCED PLACEMENT STUDIO ART 1-2, 2-D Design/Photography

Grade Level: 12

Prerequisite: Photography 1-2 and Teacher Recommendation

PHS: Fine Art

Meets UC/CSU “F” and “G” requirements

Advanced Placement Studio Art/Photography provides instruction for highly skilled, exceptional students in photography. The course assists these students in the preparation of a portfolio for the Advanced Placement program in Studio Art. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art.

ART

3D COMPUTER ANIMATION 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

3D Computer Animation 1-2 focuses on the art of 3D computer animation. Students will learn the basics of the principles of animation, design, animation software (3D Studio Max or Softimage|XSI), modeling, storyboard development, script writing, character development, and application of these skills to be successful. Students will work in a production group to create a small-animated movie. It provides students with the opportunity to self-express and communicate their own ideas through the study of character design, backgrounds, props, digital painting, special effects, scene development, storyboard development and script writing/story writing, with the application to aesthetic theories. Students will work individually and in teams to create and plan an animated short story, through story design and implementation to a hand drawn storyboard, character development, and finally computer animation. They will analysis formally and aesthetically their group and individual work. Character development will concentrate on brining life to the character using drawings and clay model studies created by the student. Students will experience working with different mediums to create storyboards and to design their own animated scenes and short stories.

3D COMPUTER ANIMATION 3-4

Grade Level: 10-12

Prerequisite: 3D Computer Animation 1-2

PHS: Practical Art or Fine Art

3D Computer Animation 3-4 is a studio class providing students with the opportunity to self-express and communicate their own ideas through the study of 3D Computer Animation focusing on design, backgrounds, props, digital painting, special effects, scene development, storyboard development and script/story writing, by creating a feature animation, a video game, scientific visualization, historical reconstruction, and so on. Students will choose an area of focus within the computer animation field and delve into that area. They will focus in greater depth on bringing life to their character and telling their story in a better format following video techniques and principles.

3D COMPUTER ANIMATION 5-6

Grade Level: 11-12

Prerequisite: 3D Computer Animation 3-4

PHS: Practical Art or Fine Art

3D Computer Animation 5-6 is a studio class as a continuation of 3D Computer Animation 3-4 with the addition for students to receive direction from a mentor in the field or in conjunction with an internship through a local business/industry partner. The course will provide students with a valuable insight to understanding the demands that are placed upon them in the workforce. The course will continue to provide students with the opportunity to self-express and communicate their own ideas through the study of 3D Computer Animation focusing on design, backgrounds, props, digital painting, special effects, scene development, storyboard development and script/story writing, by creating a feature animation, a video game, scientific visualization, historical reconstruction, and so on. Students will continue to focus on their area of interest within the computer animation field and delve into that area with the help of their mentor or internship.

ARCHITECTURAL DESIGN 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Architectural Design 1-2 focuses on the art of architecture. Students will study the history of architecture and design a set of architectural plans (AutoCAD / Architectural Desktop / ArchiCAD) of their dream home. Students will also create a 3D model of their house. The course includes the study and application of the elements and principles of design, the study of the history of ancient architecture from Catal Huyuk to the Ancient Baroque and its relevant vocabulary and structural devices, and an introduction to basic sketching and technical drawing skills.

ARCHITECTURAL DESIGN 3-4

Grade Level: 10-12

Prerequisite: Architectural Design 1-2

PHS: Practical Art or Fine Art

Architectural Design 3-4 deals with the planning of buildings. The course includes the study and application of the elements and principles of design, the study of the history of architecture in regard to the English Influence in America to Contemporary Trends and its relevant vocabulary and structural devices, and in depth sketching and technical drawing skills to produce a production working set of plans. All students will acquire a knowledge of the evaluation of man's means of building and how this relates to weather, custom, tradition, materials available, and social habits. Skills will be acquired through the process of designing a home (AutoCAD / Architectural Desktop / ArchiCAD), building a model, and surveying a typical site. Sample projects will be given as if the student were the architect and had to meet the county building codes. Students will additionally experience working with different mediums to copy ancient structures and to design their own structures using various construction devices. Technical information and skills are acquired through participation, demonstrations, projects, and guest speakers.

ARCHITECTURAL DESIGN 5-6

Grade Level: 11-12

Prerequisite: Architectural Design 3-4

PHS: Practical Art or Fine Art

Architectural Design 5-6 focuses on the planning of buildings and is a continuation of Architectural Design 3-4 providing direction from an industry partner or mentor. The course will provide students with valuable insight into the field of architecture while experiencing and gaining an understanding of the demands placed upon them in the workforce. The course will continue to apply the principles and elements of design while studying the history of architecture with a focus on current trends from the last 50 years. Students will develop their vocabulary of contemporary and postmodern structural devices while producing a working set of plans. All students will continue to study the evolution of man's means of building and how this relates to weather, custom, tradition, materials available, and social habits. Skills will be acquired through the process of designing a structure, building a model, surveying a typical site, and so on. Students will address and meet the county building codes. Students will create technical artistic presentations through the guidance of their mentor.

ART & HISTORY OF FLORAL DESIGN 1-2

Grade Level: 10-12

Prerequisite: None

PHS: Fine Art

Meets UC/CSU "F" requirement

Art and History of Floral Design 1-2 provides an introduction to artistic and creative perception including aesthetic valuing through a series of projects in various media including tempera, pencil, flowers, tile, and a variety of papers. Students are also introduced to the elements and principles of visual art design such as line, shape/form, color, balance, and emphasis using a series of floral-based projects to explore the connections, relations, and application to visual arts design. Students will research and study floral trends to understand and develop an appreciation for floral design within historical and cultural, formal and casual, ceremonial, and traditional, including an understanding that floral designs are affected by society, culture, history, politics, and economic influence. Various assignments based on abstract two- and three-dimensional designs, historical culture and theory, color theory, and analytical critiques of various floral art works using design vocabulary in conjunction with development of technical skills in floral art will serve as a foundation for more complex works such as multi-part floral designs and creative expression through wedding consultations.

CERAMICS 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Fine Art

Meets UC/CSU "F" requirement

Ceramics 1 and 2 are classes in which a variety of projects will be completed using the medium of clay. Students will be introduced to art theory concepts and will construct projects using the methods of pinch, coil, slab, with an introduction to the wheel. Students will develop their ability to communicate ideas via the elements and principles of art and design with an emphasis on craftsmanship.

CERAMICS 3-4

Grade Level: 10-12

Prerequisite: Ceramics 1-2

PHS: Fine Art

Meets UC/CSU "F" requirement

Ceramics 3 and 4 are designed for highly motivated ceramic students who have mastered basic hand building and decorative techniques. These courses will stress ceramic design, craftsmanship, and evaluation of art content at an increased level of difficulty. Studio projects will involve construction in hand-building with an option for wheel-thrown methods.

DIGITAL MEDIA PRODUCTION 1-2

Grade Level: 11-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Students will learn to create short films (vignette's) from idea to inception. This course provides introductory and intermediate training in digital media production. This course covers the following: operation of video cameras, digital video editing equipment, digital audio editing equipment,

lighting equipment, multi-track digital recorders, video recorders, compact disc & DVD recorders and rendering. Instruction includes basic development of treatments, storyboarding, script writing, and production concepts. Students will use equipment, which includes Final Cut Pro video & audio editing software. Digidesign Pro-tools, audio editing software, digital video cameras.

DIGITAL MEDIA PRODUCTION 3-4

Grade Level: 11-12

Prerequisite: C or better in Digital Media 1-2

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Students will learn to create advanced short films (vignette's) from idea to inception This course provides advanced training in digital media production. This course covers the following: operation of video cameras, digital video editing equipment, digital audio editing equipment, lighting equipment, multi-track digital recorders, video recorders, compact disc & DVD recorders and rendering. Instruction includes basic development of treatments, storyboarding, script writing, and production concepts. Students will use equipment, which includes Final Cut Pro video & audio editing software. Digidesign Pro-tools, audio editing software, digital video cameras. Advanced students will also be trained in use of jib crane work, advanced text generation, advanced HD film work, and advanced audio engineering.

DRAWING AND PAINTING 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Fine Art

Meets UC/CSU "F" requirement

Students will have an opportunity to create and evaluate a wide variety of artworks in drawing and painting media. The class will explore design elements including line, color, shape, texture, value and space. Composition and technical skills will also be covered. These classes are designed for the whole spectrum of student skill levels, from the beginning stick figure artist to the student with many years of practice.

DRAWING AND PAINTING 3-4

Grade Level: 10-12

Prerequisite: Drawing and Painting 1-2

PHS: Fine Art

Meets UC/CSU "F" requirement

Drawing and Painting 3 and 4 are designed for students who have both the interest and talent to further develop their drawing and painting skills. Students will produce, view, discuss, and analyze a wide variety of drawings and paintings. These classes will be conducted in a studio environment that combines communication of ideas, symbols, moods, and feelings with originality.

COMPUTER GRAPHIC ARTS 1-2

Grade Level: 9-12

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

This course is a study in contemporary media. The class is structured around projects emphasizing the art elements of line, shape, color, and texture. It will introduce the student to the principles of design including rhythm, balance, proportions, and variety. Students will develop an appreciation of

traditional artistic expression as well as an understanding of the role of contemporary media as a verbal and visual means of communication in today's society.

PHOTOGRAPHY 1

Grade Level: 11-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Photography 1 is a class for students wishing to learn about cameras, how to take pictures and how to print their own pictures. Photographic composition, camera techniques, film exposure and use of photographic chemicals is demonstrated. Students will work extensively in the photographic darkroom and will begin to work in a digital environment with *Photoshop*. An adjustable 35mm camera is recommended.

PHOTOGRAPHY 2

Grade Level: 11-12

Prerequisite: Photography 1

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Earns 3 units of college credit through Palomar College for "B" or better

In Photography 2, students will continue to fine-tune their composition, camera and printing skills learned in Photography 1. In addition they will use a camera for communication, creative expression and fine art presentation of photographs. Imagination and creativity will be stressed. The history of photography as well as the critical evaluation of student photographs will be stressed. In Photography 3-4, advanced skills in creative printing, specialized darkroom techniques, and advanced *Photoshop* and digital printing skills are stressed. Studio photography also becomes an integral part of the curriculum. A digital camera is recommended.

PHOTOGRAPHY 3-4

Grade Level: 11-12

Prerequisite: Photography 1

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

Earns 3 units of college credit through Palomar College for "B" or better

Photography 3-4 emphasizes applications of photography; for example, journalism, magazine articles, offset printing (textbook), electronic schematics, portraiture. This course provides the opportunity for students to explore creative and career opportunities within many different areas.

ADVANCED PLACEMENT STUDIO ART 1-2, 2-D Design/Photography

Grade Level: 12

Prerequisite: Photography 1-2 and Teacher Recommendation

PHS: Fine Art

Meets UC/CSU "F" and "G" requirements

Advanced Placement Studio Art/Photography provides instruction for highly skilled, exceptional students in photography. The course assists these students in the preparation of a portfolio for the Advanced Placement program in Studio Art. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art.

STUDIO ART

Grade Level: 10-12

Prerequisite: Drawing & Painting 1-2 & 3-4 and Teacher Recommendation

PHS: Fine Art

Meets UC/CSU “F” requirement

Studio Art is for students who have advanced skills. They must develop their own ideas for their projects and choose the types of surfaces and materials that are appropriate. Students must be highly motivated and be able to work independently. A minimum of 6 superior quality artworks are required for the semester. The teacher will discuss all projects with the students on an ongoing basis. This course can be repeated for credit and is offered every semester. (This is not an AP course.)

PRE-ENGINEERING& DESIGN 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art

Meets UC/CSU “G” requirements

Pre-Engineering and Design is an in-depth, hands-on course that concentrates on Industrial Design/Technology and is divided into four units: Technical Illustration and Design, Aesthetic Theories and Creativity, Computer-Aided Drafting, and Modeling. This course will give students the opportunity to use technology to learn about Engineering and Industrial Design.

ADVANCED PLACEMENT STUDIO ART 1-2

Grade Level: 10-12

Prerequisite: Drawing & Painting 1-2 & 3-4 and Teacher Recommendation

PHS: Fine Art

Meets UC/CSU “F” and “G” requirements

Advanced Placement Studio Art provides instruction for the highly skilled exceptional students in drawing, painting, and three-dimensional design. The course assists these students in the preparation of a portfolio for the Advanced Placement program in Studio Art. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art.

BUSINESS EDUCATION

COMPUTER GRAPHIC ARTS 1-2

Grade Level: 10-12

Meets UC/CSU “F” requirement

This course is a study in contemporary media. The class is structured around projects emphasizing the art elements of line, shape, color, and texture. It will introduce the student to the principles of design including rhythm, balance, proportions, and variety. Students will develop an appreciation of traditional artistic expression as well as an understanding of the role of contemporary media as a verbal and visual means of communication in today's society.

COMPUTER INFORMATION SYSTEMS

Grade Level: 9-12

PHS: Practical Art

Computer Information Systems provides the need-to-know software application skills and knowledge required to function in today's technological, global society. The course provides practical application and hands-on training using industry-standard software applications giving students lifetime knowledge and skills. Students will work with the Windows environment, Word Processing, Spreadsheets, Databases, Desktop Publishing, Presentation Software, and Internet Design and Publishing.

ELECTIVE CREDIT COURSES

AP HUMAN GEOGRAPHY

Grade Level: 11-12

Prerequisite: None

PHS: Elective

AP Human Geography introduces students to the basic concepts of human geography and provides a geographic framework for the analysis of current world problems through the use of case studies. The course develops students' abilities to ask geographic questions; acquire, organize, and analyze geographic information; and answer geographic questions. This course will cover basic concepts of geography, population, migration, folk and popular culture, language, religion, ethnicity, political geography, development, agriculture, industry, services, and urban geography.

The class strives to provide students with the analytical skills and factual knowledge to deal critically with the problems and issues in geography. To achieve this goal, students should be prepared to spend a significant amount of time outside of class on homework and research. Students in AP Human Geography need to be extremely motivated, responsible, and dedicated in order to make this commitment.

AP PSYCHOLOGY 1-2

Grade Level: 11-12

Prerequisite: None

PHS: Elective

Meets UC/CSU "G" requirement

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental process 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.

YEARBOOK

Grade Level: 10-12

Prerequisite: Teacher Recommendation

This course may not be used for English credit.

Yearbook is a course in which the basic purpose is to produce an offset yearbook. Students are assigned various tasks that require serious initiative and responsibility. Records must be kept, ads sold, pictures taken, captions written, copy prepared, and layouts designed. Once the present year's book is complete, plans are prepared for the following year's book.

AVID 1-6

Grade Level: 9-12

Prerequisite: Teacher Recommendation

AVID is a program designed to aid students who have college potential by providing additional support. Students commit to completing the University of California A-G requirements, repeating in summer school any class in which they earn a "D" or an "F", and taking an AVID class each year. The elective class has college tutors who assist students in other classes, teaches note-taking, organization skills, time management, test-taking strategies, writing across the curriculum, and the inquiry method. Additionally, students have guest speakers and take field trips to colleges.

AVID SENIOR SEMINAR

Grade Level: 12

Prerequisite: Previous enrollment in AVID for 3 years

AVID Senior Seminar is the culmination of a student's years in the AVID program and involves substantial critical reading, writing, and oral presentation. Students will be required to complete college applications (UC & CSU), financial aid, housing applications, timed writings and analytical discourses in subjects across the curriculum. In addition, students will be required to make oral presentations on topics related to contemporary issues and social concerns.

TALL FLAGS – COLOR GUARD (Spring Semester)

Grade Level: 9-12

Prerequisite: Participation in Tall Flags the previous Fall

Students receive elective credit only.

The Color Guard class provides students with the opportunity to develop musical/visual concepts, skills, and interpretations. These concepts will be used in conjunction with the marching program and the indoor tall flag instruction. Evaluation will be provided by the Southern California School Band and Orchestra Association and the California Tall Flag Association, in addition to teacher observation. This class does not meet the PUSD Physical Education graduation requirement or the CSU Fine Arts requirement.

LIBRARY ASSISTANT

Grade Level: 11-12

Prerequisite: Consent of librarian

Library Assistant is a course in which students work in the library assisting in shelving and mending books, typing, filing, and helping other students find needed materials and use electronic tools.

OFFICE ASSISTANT

Grade Level: 11-12

Prerequisite: Teacher Recommendation

Office Assistant is a course in which students are trained to perform routine office tasks such as public reception, collating, filing, typing, answering the telephone, distributing mail, collecting attendance, and delivering call slips.

TEACHER ASSISTANT**Grade Level: 11-12****Prerequisite: Teacher Recommendation**

Teacher Assistant is a course in which students are trained to assist the teacher by marking papers, recording scores, collating, preparing materials and displays, inventorying equipment, and delivering messages.

PLANNING AND LEADERSHIP**Grade Level: 10-12****Prerequisite: Peer elections and/or peer interviews; Consent of supervising A.S.B. Director**

Planning & Leadership is a course in which students are taught leadership skills, parliamentary procedure, group processes, planning, and organization. Members of the Planning & Leadership class actively participate in student activities and student government.

ENGLISH**ENGLISH PREP – See Elective Credit Courses Section****HIGH SCHOOL ENGLISH 1-2****Grade Level: 9****Prerequisite: None****Meets the UC/CSU “B” or “G” requirement**

In High School English 1-2, students will continue to develop their thinking-in-writing by practicing a variety of writing modes including the literary analysis essay, descriptive writing and formal, academic research. Concurrently, they will acquire and use specific skills to read and respond to different genres of literature, which could include the short story, myths and legends, the novel, and assorted non-fiction, and will gradually move to more sophisticated reading and writing. By combining their reading of literature with a process approach to writing, students will not only broaden their knowledge of literary techniques, but also learn to connect their own personal experiences with the literature.

HONORS HIGH SCHOOL ENGLISH 1-2**Grade Level: 9****Prerequisite: Teacher recommendation****Meets the UC/CSU “B” or “G” requirement**

Honors H.S. English 1-2 is an advanced version of High School English 1-2. Students read several novels, poetry, and Shakespearean drama, as well as outside novels or nonfiction works from a required reading list. The literary analysis is introduced and practiced as well as other formatted types of writing including the documented multi-page research paper on a controversial issue. The parts of speech and types of sentences and usage are reviewed, and twenty vocabulary words are studied and tested weekly.

HIGH SCHOOL ENGLISH 3-4

Grade Level: 10-12

Prerequisite: High School English I-2

Meets the UC/CSU “B” or “G” requirement

Through a thematic approach to the study of literature and written composition, students in High School English 3-4 will broaden their knowledge of literature and its cultural elements (e.g. art, music, dance, politics, etc.). They will improve their ability to understand their connection to literature, develop writing and thinking skills, master punctuation and grammar skills, and further improve listening and speaking skills. Writing modes addressed will include: reflective, interpretive, and evaluative. Also, a research-based controversial issue essay will be required.

HONORS HUMANITIES 1-2

Grade Level: 10

Prerequisite: Teacher recommendation

Meets the UC/CSU “B” or “G” requirement

Honors Humanities 1-2 emphasizes expository expression, both written and oral. Students write in a variety of essay modes including: controversial issue, cause/effect, reflective, compare/contrast, and literary analysis. Students learn to form a thesis statement, organize support information, and develop an introduction, body and conclusion appropriate for each assignment. The course involves library research, internet investigations, outside reading, peer cooperation, and formal public speaking. Additionally, students will begin a survey of Western culture beginning with the Ancient Greeks and through and beyond the Renaissance up to the 20th Century .

JOURNALISM/ILIAD-School Newspaper

Grade Level: 10-12

Prerequisite: Teacher Permission

Meets the UC/CSU “G” requirement

In Journalism 2, students design and produce the school newspaper. They learn news, feature, review, editorial and sports writing styles, as well as laws related to journalists. Using a computer desktop publishing program, they design pages and finalize their work. Students also familiarize themselves with the business aspects of newspaper production by handling advertising accounts.

AMERICAN LITERATURE 1-2

Grade Level: 11-12

Prerequisite: High School English 3-4

Meets the UC/CSU “B” or “G” requirement

American Literature 1-2 introduces famous American writers such as Bradford, Dickinson, Whitman, Irving, Poe, Crane, Twain, O’Henry, Hawthorne, Hemingway and Steinbeck, and the philosophical context of the literature. American Literature 2 deals with more modern American writers. Possible choices of authors to be studied include Faulkner, Hemingway, Steinbeck, Albee, O’Neill, Williams, Salinger, Sandburg, Frost, or Fitzgerald. Students will continue to practice the essay format, advanced literary concepts and SAT vocabulary.

WORLD LITERATURE 1-2

Grade Level: 12

Prerequisite: American Literature 1-2

Meets the UC/CSU “B” or “G” requirement

World Literature studies the literature, histories and cultures of Africa, India, the Orient, Latin America, and parts of Europe. This course is designed to educate the students so that they will be able to recognize the differences between cultures and, in so doing, the universality of the human condition. Readings include several modern titles. Compositions are geared to prepare seniors for college.

EXPOSITORY READING AND WRITING

Grade Level: 12

Prerequisite: American Literature

Meets the UC/CSU “B” or “G” requirement

Expository Reading and Writing prepares college-bound seniors for the literacy demands of higher education. Students in this yearlong, rhetoric-based course will become more proficient in expository, analytical and argumentative reading and writing, increasing their awareness of the rhetorical strategies employed by authors and applying those same strategies to their own writing.

ADVANCED PLACEMENT ENGLISH LANGUAGE

Grade Level: 11-12

Prerequisite: High School English 3-4 or Honors Humanities

Meets the UC/CSU “B” or “G” requirement

AP English Language is a two-semester course designed to prepare students to take the AP Language Exam. Students will read, discuss, and write about fiction and non-fiction literature, from Colonial to modern times, focusing on text analysis, rhetorical strategies, and vocabulary development. They will develop a more specific understanding of how audience, speaker, style and purpose shape persuasive writing. This course also emphasizes the development of research skills and requires students to write a 15-20 argumentative research paper on a modern American author of their choice.

ADVANCED PLACEMENT ENGLISH LITERATURE 1-2

Grade Level: 12

Prerequisite: 3.5 GPA Teacher Recommendation

Meets the UC/CSU “B” or “G” requirement

Advanced Placement English 1-2 is a college-level course designed to prepare students to take the Advanced Placement English examination. The course presents examples of Western literary development from the Greeks through the twentieth century, acquainting students with various genres and themes. Emphasis will be placed on a close reading and analysis of the individual literary work. In addition, attention may be given to the historical and philosophical characteristics of the authors, literary movements, and genres. Students also will be expected to write expository, researched papers.

MATHEMATICS

INTRODUCTION TO HIGH SCHOOL ALGEBRA

Grade Level: 9-10

Prerequisite: None

Introduction to High School Algebra is a course designed to develop the skills required to be successful in Algebra I. Mathematical content includes number sense, patterns and functions, and problem solving. This course will meet High School graduation requirements.

ALGEBRA 1-2

Grade Level: 9-12

Prerequisite: None

Meets the UC/CSU "C" requirement

This course is the first year of algebra. Students learn about operations with algebraic expression, solutions to first and second degree equations, factoring, graphing linear equations, inequalities, irrational numbers, the quadratic formula, and other similar topics. The typical student spends at least one-half hour on homework daily. This course has been aligned to the PUSD and State Standards for Mathematics, and meets the PUSD math requirements.

GEOMETRY 1-2

Grade Level: 9-12

Prerequisite: C or better in Algebra 1-2

Meets the UC/CSU "C" requirement

This course teaches deductive reasoning and organized thinking. Students study postulates, definitions, and theorems to use in formal proofs. Both semesters emphasize using algebraic skills to solve problems. Plane geometry and solid geometry are taught. Students also learn straightedge and compass constructions and transformations.

ALGEBRA 3-4

Grade Level: 10-12

Prerequisite: Geometry 1-2

Meets the UC/CSU "C" requirement

This course is a review and extension of first year algebra. New topics include conic sections, probability, logarithms, matrices and properties of functions. It is intended for college bound students who are not math or science majors.

HONORS ALGEBRA 3-4

Grade Level: 9-12

Prerequisite: B or better in Algebra 1-2 and Honors Geometry 1-2

Meets the UC/CSU "C" or "G" requirement

This course is a continuation of Algebra 1-2, starting with a comprehensive review. New topics include, logarithms, solving inequalities, higher degree equations, conics, matrices, trigonometry, complex numbers, probability and sequences and series.

ADVANCED PLACEMENT STATISTICS 1-2

Grade Level: 11-12

Prerequisite: Completion or concurrent enrollment in Honors Algebra 3-4, Algebra 3-4 or higher

Meets the UC/CSU "C" or "G" requirement

The multidisciplinary aspects and applications of statistics make it one of the most rewarding classes to take. The study blends the rigor, calculations, and deductive thinking of mathematics, the real-world examples and problems of social science, the decision-making needs of business and medicine, and the laboratory methods and experimental procedures of the natural sciences. This course is designed to prepare students to take the Advanced Placement Exam for Statistics.

PRE-CALCULUS 1-2

Grade Level: 11-12

Prerequisite: C or higher in Algebra 3-4

Meets the UC/CSU "C" or "G" requirement

Pre-Calculus 1-2 is designed for the advanced college-preparatory student and will provide the foundation for students to proceed into Calculus. The major content will focus on functional and graphical analysis, exponential, polynomial, rational, and logarithmic functions, and circular and trigonometric functions.

HONORS PRE-CALCULUS 1-2

Grade Level: 11-12

Prerequisite: C or higher in Honors Algebra 3-4 B or higher in both Algebra 3-4 and Trig/Stats

Meets the UC/CSU "C" or "G" requirement

This course is for advanced college prep students. It provides the foundation for students to proceed to Calculus. Reviews Trigonometry, Geometry, and Algebra. It introduces the study of polynomials including synthetic division, graphing theory, limits, and derivatives.

COLLEGE ALGEBRA 1-2

Grade Level: 11-12

Prerequisite: B or higher in Algebra 3-4, Trigonometry or Honors Algebra 3-4

Meets the UC/CSU "C" or "G" requirement

This course is designed for the advanced math student who is preparing to take Honors Pre-Calculus or college mathematics. Non-algebra based topics (such as network theory and number theory) will be studied, along with some pre-calculus concepts, in order to bring diversity and interest to the curriculum. Students will leave the course prepared to take a pre-calculus, statistics, or discrete math course in either high school or college mathematics.

ADVANCED PLACEMENT CALCULUS AB 1-2

Grade Level: 11-12

Prerequisite: B or better in Honors Pre-Calculus Teacher recommendation

Meets the UC/CSU "C" or "G" requirement

This course is a college-level class for students who have completed the equivalent of 4 years of college preparatory mathematics. Students will receive little or no review. Topics include derivatives, differentials, integrations, and applications. Many problems are atypical and require students to synthesize new solutions. A graphing calculator is required. The course is designed to prepare students to take the Advanced Placement Exam for Calculus AB.

ADVANCED PLACEMENT CALCULUS BC 1-2

Grade Level: 11-12

Prerequisite: B or better in Calculus AB 1-2 Teacher Recommendation

Meets the UC/CSU "C" or "G" requirement

This course is for students who have completed four years of college preparatory math including Calculus AB. New topics covered include parametric equations, vector functions, indeterminate forms of limits, polar curves, advanced integration techniques, infinite series, and Taylor polynomials. This course prepares the student to take the Advanced Placement Exam for Calculus BC.

VOCAL & INSTRUMENTAL MUSIC/DRAMA

BEGINNING CHOIR 1-2

Grade Level: 9-12

Recommended Prerequisites: None

Meets UC/CSU "F" requirement

Beginning Choir I teaches students how to sing and how to read music. It is an opportunity to develop musical skills and to broaden the musical experience through rehearsal and performance. This is a performance class and students participate in all concerts and a spring festival. The makeup of this class could be mixed voices, women only or men only. Beginning Choir 2 is an extension of Beginning Choir 1 and includes further exploration of music theory and vocal techniques.

CONCERT CHOIR 1-2 (Advanced Mixed)

Grade Level: 9-12

Prerequisite: Audition and teacher recommendation

Meets UC/CSU "F" requirement

Concert Choir is the third choir in the sequence of the choral program, following Beg. I and Beg. II. It is a large choir consisting of mixed voices (men and women) or men only or women only. Audition is necessary, and knowledge of music theory is absolutely necessary. Students will continue to develop as choral musicians and learn the skills necessary to audition for either Women's Ensemble or Classical Vocal Ensemble. This choir will participate in all concerts and festivals.

CLASSICAL VOCAL ENSEMBLE (Die Lieder Singers)

Grade Level: 10-12

Prerequisite: Audition and teacher recommendation

Meets UC/CSU "F" requirement

Classical Vocal Ensemble is a course for advanced choral musicians. Advanced choral and vocal technique will be taught in a small choir setting of 20-26 students. Classical and traditional repertoire will be studied and performed. This is a performance class, and students are expected to participate in all choral activities. Outside time is required. Activities will include school and community performances. The Classical Vocal Ensemble will represent the school at district and state levels in adjudicated festivals.

WOMEN'S ENSEMBLE

Grade Level: 10-12

Prerequisite: Audition and teacher recommendation

Meets UC/CSU "F" requirement

Women's Ensemble is a course for advanced choral musicians through audition only. Advanced choral and vocal technique will be taught. Classical and traditional repertoire specifically written for women's voices will be studied and performed. This is a performance class and students are expected to participate in all choral activities. Outside time is required. Activities will include school and community performances. The Women's Ensemble will represent the school at district and state levels in adjudicated festivals.

FRESHMAN BAND

Grade Level: 9

Prerequisite: Basic knowledge of instrument

Freshman Band offers the student of instrumental music an opportunity to further develop musical skills and to broaden the musical experience through rehearsal and performance. All students are required to be enrolled in Marching Physical Education first semester.

CONCERT BAND

Grade Level: 10-12

Prerequisite: Previous band experience

Meets UC/CSU "F" requirement

Concert Band is designed for instrumental musicians. This is a performance class, and students are expected to participate in all band activities. Activities will include concerts for the band as well as solo and ensemble festivals. This band represents the school at District and state levels in concert festivals. All students are required to be enrolled in Marching Physical Education first semester.

WIND ENSEMBLE

Grade Level: 10-12

Prerequisite: Concert Band or Advanced Concert Band

Meets UC/CSU "F" requirement

Wind Ensemble is a course for advanced instrumental musicians. This is a performance class, and students are expected to participate in all band activities. Some outside time is necessary. Activities will include concerts for the band and various festivals. The Wind Ensemble will represent the school at District and state levels in concert evaluations.

INSTRUMENTAL ENSEMBLE

Grade Level: 9-12

Prerequisites: None

Meets UC/CSU "F" requirement

Instrumental Ensemble is a course for all levels of instrumental musicians. In the Fall Semester, the class is designed for marching band percussion students only. There are outside rehearsals coordinated with the Fall session for percussion students. In the Spring semester, small ensembles are encouraged, although solos may be prepared for the solo and ensemble festival held at two different locations in the county. The students may be required to participate in the solo and ensemble festival.

ORCHESTRA (STRING ENSEMBLE)

Grade Level: 9-12

Prerequisites: Previous experience playing an orchestral string instrument

Meets UC/CSU "F" requirement

Orchestra is designed for the stringed-instrument student who desires to play in a performing organization based upon orchestral instruments. The group will play a variety of string orchestra music and will perform at school concerts and at festivals.

TALL FLAGS - COLOR GUARD

Grade Level: 9-12 (Spring Semester)

Recommended prerequisite: Participation in Tall Flags the previous Fall

The Color Guard class provides students with the opportunity to develop musical/visual concepts, skills, and interpretations. These concepts will be used in conjunction with the marching program and the indoor tall flag instruction. Evaluation will be provided by the Southern California School Band and Orchestra Association and the California Tall Flag Association, in addition to teacher observation. This class does not meet the PUSD Physical Education graduation requirement or the CSU Fine Arts requirement.

MARCHING PHYSICAL EDUCATION

Grade Level: 9-12 (Fall Semester)

Prerequisite: Membership in Band MARCHING PHYSICAL EDUCATION/TALL FLAGS (Fall Semester)

Marching Physical Education is designed to develop a well-coordinated and precise marching unit. Students will learn to prepare and execute marching, dance, and drill routines. All band members are required to take this course. NOTE: A total of fifteen credits in Marching Physical Education may be applied toward the Physical Education requirement.

DRAMA 1-2

Grade Level: 9-12

Prerequisite: None

Meets UC/CSU "F" requirement

Drama 1 and Drama 2 are survey courses that include many facets of dramatic activity. Included are basic storytelling, voice and diction, exercises and movement, some improvisational work, and introductory acting. It is a beginning study of theater with in-depth looks at theater history and modern plays. Students will study plays and films and be able to critique them (verbally as well as written). A series of scenes must be presented. The students will be requested to attend one performance of our school play.

DRAMA 3

Grade Level: 10-12

Prerequisite: Drama 2 or Teacher Recommendation

Meets UC/CSU "F" requirement

Drama 3-4 and 5-6 are courses in play production. These courses include a detailed study of how plays are produced and directed. Included in the course is a study of the history of the theater and changes in writing and acting styles. Students are expected to perform scenes from classical literature after studying the influences of the various periods. In addition students are expected to perform in scenes from modern British and American dramatic literature, as well as to research a selected topic. Students will demonstrate an increased attention to detail and are expected to

select a semester project and carry it to culmination. Students are also expected to participate in our PHS Fall or Spring production.

DRAMA 4

Grade Level: 10-12

Prerequisite: Drama 3 or consent of instructor

Meets UC/CSU "F" requirement

Drama 4 is a course in play production. The course includes a detailed study of how plays are produced, cast, and directed. Students will act in scenes for other directors. A continuing study is made of theater history and additional styles and terminology. Students will begin to learn principles of directing and technical theater as well as produce a memorized semester project. This is a performance class. Students should participate in our Fall or Spring production. Drama may be used to meet the PHS fine arts requirement but not the PHS English requirement.

DRAMA 5

Grade Level: 11-12

Prerequisite: Drama 4 or consent of instructor

Meets UC/CSU "F" requirement

Drama 5 continues the application of the play direction techniques introduced in Drama 4. Students are expected to select a semester project and to carry it to culmination. Drama 5 is a course in which students do creative exercises to illustrate characters and situations, as well as improvisational exercises. It is a beginning study of theater with in-depth looks at structure of theater and plays and more improvisations and pantomimes. Students will visit movies and plays and be able to write a critique of them. At least one basic scene and/or series of pantomimes must be presented. Also included is a study of the function of the playwright, the actor, the director, and the technicians. In addition, the students will study the written scripts of four genres: melodrama, comedy, farce, and modern drama.

DRAMA 6

Grade Level: 11-12

Prerequisite: Drama 5 or consent of instructor

Meets UC/CSU "F" requirement

Drama 6 is a course in which students explore advanced methods and techniques of acting, interpretation, and direction. Students are expected to participate in classroom scenes. Students are expected to research an individually selected topic. Costuming and makeup are also to be covered in this course. This is essentially a director's laboratory/workshop and a performance class with scenes and projects. This course may strengthen students' expository writing skills. Emphasis will be placed on the multi-paragraph essay and on research, analysis, and writing about non-fiction. Developing advanced vocabulary skills will also be stressed.

THEATRE STUDY AND PERFORMANCE 7-8

Grade Level: 10-12

Prerequisite: Consent of instructor

Meets UC/CSU "F" requirement

This course is intended for those students who are ready to make an in depth commitment to the study and performance of theatre. Students will continue to hone and expand their skills in performance, design, stagecraft and theatre management through the process of selecting and producing plays from a variety of theatre genres for public performance.

PHYSICAL EDUCATION/HEALTH

HEALTH SCIENCE

Grade Level: 9-12

Prerequisite: None

Health Science presents a thorough study of modern people, major mental and physical health problems, and means for their control and/or prevention. Topics include infectious and chronic diseases, CPR/First aid, sex education, nutrition/fitness, mental health, and substance abuse. Students will also receive instruction in developing good study skills.

FRESHMAN PHYSICAL EDUCATION

Grade Level: 9

Prerequisite: None

Freshman P.E. is designed for freshman students to introduce them to physical education at the high school level. Students are required to take two semesters of freshmen PE and will rotate through 3 six-week groups each semester. During the freshman year the students will be exposed to different activities, which include the following: weight training, basketball, wrestling, racquetball, swimming, softball, soccer, track & field. Students will also participate in fitness activities, testing, and a variety of fun game activities.

BADMINTON

Grade Level: 10-12

Prerequisite: None

Badminton is offered to students interested in acquiring skills in an exciting lifetime sport. The course will offer the basic skills and knowledge to perform the activity at a novice level. Students will participate in fitness activities, testing, and a variety of fun game activities.

ADVANCED BASEBALL/WEIGHT TRAINING

Grade Level: 10-12

Prerequisite: Teacher Recommendation

Baseball is a course designed to teach students advanced techniques of baseball, to include hitting, pitching, fielding and strategy that are at an interscholastic level of play. Weight training, plyometrics, conditioning, and flexibility will all be involved.

BEGINNING BASKETBALL

Grade Level: 10-12

Prerequisite: None

Beginning Basketball is a course designed to improve elementary skills, fundamentals and techniques. Students who successfully complete this class should be able to compete at an intermediate level of play. Students will participate in fitness activities, testing, and a variety of fun game activities.

ADVANCED BASKETBALL/WEIGHT TRAINING

Grade Level: 10-12

Prerequisite: Teacher Recommendation

Advanced Basketball is a course designed to emphasize skills and techniques that are at an interscholastic level of play. Weight training, plyometrics, conditioning, and flexibility will all be involved in this course selection.

RACQUET SPORTS

Grade Level: 10-12

Prerequisite: None

Students will understand, participate, and teach the advanced principles of training and competition for Racquet Sports that include tennis, racquetball, and badminton. Areas of study will include understanding and execution of advanced offensive and defensive strategies, development of appropriate training practices, application of dynamic scientific principles, sports psychology, optimal nutritional habits, application and modification of rules of the game, officiating, tournament facilitation, and coaching.

SOCCER

Grade Level: 10-12

Prerequisite: None

Soccer is a course in which students are taught and practice a wide variety of soccer skills including trapping, kicking, passing, heading, dribbling, and goal keeping. Students are also taught game rules and game strategy. Students will participate in fitness activities, testing, and a variety of fun game activities.

BEGINNING SWIMMING

Grade Level: 10-12

Prerequisite: None

Beginning Swimming is specifically designed to attract all students who have not learned the basic skills required to swim and enjoy the benefits of water activities and conditioning. Students will participate in fitness activities, testing, and a variety of fun activities.

WEIGHT TRAINING

Grade Level: 10-12

Prerequisite: None

Weight Training is a course in which students are involved in the isotonic type of weight training, running, plyometrics, stretching, and cross training. The isotonic weight lifting will be performed both on the universal weight machine and free weights. Students will participate in fitness activities, testing, and a variety of fun activities.

ADVANCED FOOTBALL/ WEIGHT TRAINING

Grade Level: 10-12

Prerequisite: Teacher Recommendation

Advanced Football is designed to further the development of fundamental football skills. The following activities will be included: advanced weight training, plyometrics, advanced football strategies, plays and rules of the game. Physical fitness is stressed with testing in weight training, running, push-ups, sit-ups, and agility.

ADVANCED WRESTLING/ WEIGHT TRAINING

Grade Level: 10-12

Prerequisite: Teacher Recommendation

Advanced Wrestling/ Weight Training is designed to further a beginning wrestler's skill level and physical strength to a much higher level. Major emphasis will be placed on the various techniques used in wrestling, as well as a higher degree of intensity when weight training. More intensive running will be included involving a higher degree of aerobic and anaerobic fitness.

OFF CAMPUS INDEPENDENT STUDY/P.E.

Grade Level: 10-12

Admission to the program is made through an extensive written application process during the semester prior to enrollment. Admission and other program deadlines must be adhered to.

O.C.I.S./Physical Education is available to students who are participating in an approved preparation program for national amateur competition in swimming, ice skating, gymnastics, tennis or dance. Students must be practicing at least 15 hours a week under the direct supervision of a certified coach and must be participating in regional, state, or national competition during the semester of enrollment. Hours of participation in Poway High School's athletic program cannot be used toward the O.C.I.S. PE program.

SCIENCE

BIOLOGY 1-2

Grade Level: 9-11

Prerequisite: Concurrent enrollment in Algebra 1-2

Meets the UC/CSU "D" or "G" requirement and PHS life science requirement

Biology 1-2 is a study of living things, starting with the cell and one-celled organisms through representatives of the animal and plant kingdoms. With the aid of laboratory exercises, students will learn how organisms perform all life functions and how they interrelate.

HONORS BIOLOGY 1-2

Grade Level: *9-10

Prerequisite: A in Algebra 1-2 /Teacher recommendation

***9th graders may take this course with concurrent enrollment in Geometry 1-2 or higher**

Meets the UC/CSU "D" or "G" requirement and PHS life science requirement

Honors Biology 1-2 is a rigorous, accelerated laboratory science course which focuses on investigating major biological concepts. In addition, emphasis will be placed on the study of chemistry, physics, and statistical analysis as applied to biological systems, genetics, evolution, ecology, and physiological processes in organisms. The course is open to college-preparatory students who have demonstrated exceptional ability in science.

GEOSCIENCE 1-2

Grade Level: 10-12

Prerequisite: Biology 1-2

Meets the UC/CSU "G" requirement and PHS physical science requirement

Geoscience 1-2 is a one-year college preparatory lab course that explores the characteristics, formation, and processes that occur on and within the Earth, the atmosphere, and our universe. Course topics utilize core concepts of chemistry and physics as listed within the PUSD physical science essential learnings. There is a strong emphasis on algebra-based qualitative and quantitative laboratory activities, which include internet-based research and study. This course is designed to emphasize skills necessary for success in Chemistry 1-2 and AP Environmental Science.

CHEMISTRY 1-2

Grade Level: 10-12

Prerequisite: Biology, B or better in Algebra 1-2, concurrent enrollment in Algebra 3-4

Meets the UC/CSU "D" or "G" requirement and PHS physical science requirement

Chemistry 1-2 is a rigorous, in-depth introduction to the fundamental principles, concepts, and techniques of chemistry, using a problem-solving approach. It is designed for college-bound students who have completed a year of college prep science and mathematics.

HONORS CHEMISTRY 1-2

Grade Level: 10-11

Prerequisite: B or better in Honors Biology, A in Biology; concurrent enrollment in Honors Algebra 3-4; and/or teacher recommendation.

Meets the UC/CSU "D" or "G" requirement and PHS physical science requirement

Honors Chemistry 1-2 is a rigorous, accelerated laboratory science course that will focus on major principles and concepts of chemistry. In addition, emphasis will be placed on the study of physical chemistry, thermodynamics, equilibrium, stoichiometry, kinetics, atomic structure and chemical bonding, redox, and acid base.

HUMAN BIOLOGY 1-2

Grade Level: 11-12

Prerequisites: Biology and Chemistry or Geoscience

Meets the UC/CSU "D" or "G" requirement

Human Biology provides an introduction to physiology and anatomy of the human body. Major organ systems that will be investigated include nervous, immune, digestive, endocrine, etc. Contemporary scientific issues affecting biology will be integrated into course curriculum. Topics may include DNA's role in behavior, the ethics of cloning and fetal tissue research, cancer and other diseases. This course is designed to support students interested in health-related careers.

PHYSICS 1-2

Grade Level: 11-12

Prerequisite: B or better in Algebra 3-4, Honors Pre-Calculus recommended

Meets the UC/CSU "D" or "G" requirement

Physics 1-2 is an algebra based college preparatory course covering fundamental principles of matter and energy. The primary unit topics include mechanics, sound and light waves, electricity, magnetism and thermodynamics. Emphasis is placed on quantitative analysis of data collected in laboratory exercises, and applied problem solving. Students will be required to complete quarterly field exercises dealing with the application of academic concepts to the real world. A working knowledge of basic algebra, geometry, and trigonometry is strongly recommended.

ZOOLOGY 1-2

Grade Level: 11-12

Prerequisite: B or better in Biology 1-2

Meets the UC/CSU "D" or "G" requirement

Zoology 1-2 is a more in-depth study of the animal kingdom than is possible in Biology 1-2. Each of ten major animal groups (phyla) will be studied starting with sponges and ending with mammals. Many aspects of their anatomy, physiology, and natural history will be covered in lecture and weekly laboratories. Field work emphasizing their ecology will be done whenever possible.

ADVANCED PLACEMENT BIOLOGY 3-4

Grade Level: 11-12

Prerequisite: Biology and Chemistry or Geoscience

Meets the UC/CSU "D" or "G" requirement

Advanced Placement Biology 3-4 is planned to meet the objectives of a general biology course on the college level. Topics covered include the chemical basis of biology, cells, their specialization and reproduction, energy transformation, heredity and genetics, the origin of life, the structure and function in higher plants and in animals, behavior and its basis in heredity and biochemistry, evolution, and ecology.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE 1-2

Grade Level: 11-12

Prerequisite: B or better in Biology and Chemistry or Geoscience

Meets the UC/CSU "D" or "G" requirement

AP Environmental Science is a course that will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and man-made, and evaluate the relative risks associated with these problems. Students will also examine alternative solutions for resolving and/or preventing these problems.

ADVANCED PLACEMENT CHEMISTRY 3-4

Grade Level: 11-12

Prerequisite: B or better in Chemistry 1-2, completion of Algebra 3-4, concurrent enrollment in Honors Pre-Calculus

Meets the UC/CSU "D" or "G" requirement

The course is a rigorous investigation of the principles of chemistry. Emphasis is placed on qualitative and quantitative understanding of thermodynamics, stoichiometry, kinetics and equilibrium. The laboratory component stresses a hands-on approach using contemporary scientific equipment. The curriculum parallels general chemistry courses at university level.

ADVANCED PLACEMENT PHYSICS C 1A-1B

Grade Level: 11-12

Prerequisite: Concurrent enrollment in or successful completion of Honors Pre-Calculus 1-2

Meets the UC/CSU "D" or "G" requirement

Advanced Placement Physics C 1A-1B course forms the first part of the college sequence that serves as the foundation in physics for college physics students. The topic of mechanics will be

the emphasis of the course; however, other related topics may be covered. Strong emphasis is placed on laboratory experience and problem solving.

SOCIAL SCIENCE

WORLD HISTORY 1-2

Grade Level: 10-12

Prerequisite: None

Meets the UC/CSU “A” or “G” requirement

Students in World History study major turning points that shaped the modern world, from the late eighteenth century through the present, including the cause and course of both World Wars and the Cold War period. Students also develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and culture (art, music, literature) contents. Students consider multiple accounts of events in order to understand international relations from a variety of perspectives. The standards for the year-long course are taught and learned through eight major themes sequenced chronologically. Competency-based educational objectives will be in compliance with California State Model Curriculum Standards.

ADVANCED PLACEMENT EUROPEAN CIVILIZATION 1-2

Grade Level: 10-12

Prerequisite: B or higher in H.S. English 1-2 Teacher recommendation

Meets the UC/CSU “A” or “G” requirement

European Civilization 1-2 (Advanced Placement) is a two-semester course addressing the economic, political, and cultural forces in Western civilization from the mid-Fifteenth (Renaissance) to the Twentieth Century. This is considered a college level course. The rigorous course material is approached thematically. This course meets the World History requirement for high school graduation. Students taking this course may take the Advanced Placement exam in European Civilization.

U.S. HISTORY 1-2

Grade Level: 11-12

Prerequisite: None

Meets the UC/CSU “A” or “G” requirement

U.S. History 1-2 is a two-semester course in which students examine the economic, social, and political development of the United States, concentrating primarily on the twentieth century. During the year certain themes will be emphasized: the expanding role of the federal government and federal courts; the continuing tension between the individual and the state; the emergence of a modern corporate economy; the impact of technology on American society and culture; change in the ethnic composition of American society; the movements toward equal rights for racial minorities and women; and the role of the United States as a major world power. Throughout the course students will explore American culture, literature, the arts, and the mass media. Students will demonstrate competency in questioning, critical thinking, research, and writing as it applies to the discipline of history. Competency-based educational objectives will be in compliance with California State Model Curriculum Standards.

ADVANCED PLACEMENT U.S. HISTORY 1-2

Grade Level: 11-12

Prerequisite: B or better in H.S. English 3-4 B or better in World History 1-2 or AP European Civilization Teacher recommendation

Meets the UC/CSU “A” or “G” requirement

U.S. History (Advanced Placement) 1-2 is an advanced course taught at the college level. It is designed for students who wish to take the Advanced Placement Examination, administered by Educational Testing Service, in the spring. Those passing the A.P. exam at a high level usually can receive college credit and a waiver of the college U.S. History requirement. The course emphasizes extensive reading, research and problem solving, writing, historiography, and historical knowledge.

CIVICS

Grade Level: 12

Prerequisite: None

Meets the UC/CSU “A” or “G” requirement

Civics surveys the origins of our federal, state and local governments and studies their structure, function, theory and process. It promotes citizenship skill building by serving the community in an “outside project” and prepares students for the political and social arenas of the future. This is a practical course applying knowledge toward voting, jury duty and rights and privileges of community participation. Must be taken in 12th grade only.

ECONOMICS

Grade Level: 12

Prerequisite: None

Meets the UC/CSU “G” requirement

Economics is a course in which students will deepen their understanding of the economic problems and institutions of the nation and world in which they live. They will learn to make reasoned decisions on economic issues as citizens, workers, consumers, business owners and managers. Primarily a course in social science, economics enriches students' understanding of the operations and institutions of economic systems, rather than a course in household or business management or budgeting. The course will deal with the following areas: 1) fundamental concept (e.g., scarcity); 2) comparative economic systems (Capitalism, Communism, Socialism, etc.); 3) macroeconomics (supply and demand, forms of competition, monetary policy, etc.) 4) international economic concepts (e.g., comparative and absolute advantage, international trade, etc.).

ADVANCED PLACEMENT U.S. GOVERNMENT & ECONOMICS 1-2

Grade Level: 12

Prerequisite: B or better in U.S. History or AP U.S. History Teacher recommendation.

Meets the UC/CSU “A” or “G” requirement

U.S. Government & Economics (Advanced Placement) is designed to give students a critical perspective on government, politics, and economics in the United States. The class involves both the study of general concepts used to interpret American governmental, political, and economic systems and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. This course is

intended to prepare students who wish to take the Advanced Placement Examination in U.S. Government and Politics.

ADVANCED PLACEMENT PSYCHOLOGY 1-2

Grade Level: 11-12

Prerequisite: Teacher recommendation

Meets the UC/CSU "G" requirement

This 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 the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice.

WORLD LANGUAGES

FRENCH 1-2

Grade Level: 9-12

Prerequisite: Strong basic skills

Meets the UC/CSU "E" requirement

French 1-2 is a beginning course that develops the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Individual and group oral and written exercises provide practice to develop these skills.

FRENCH 3-4

Grade Level: 9-12

Prerequisite: French 1-2

Meets the UC/CSU "E" requirement

French 3-4 is an intermediate course designed to further develop the four communication skills of listening, speaking, reading, and writing with an increased vocabulary, more complicated grammatical structures, and idiomatic expressions.

FRENCH 5-6

Grade Level: 10-12

Prerequisite: French 3-4 or two years of basic French

Meets the UC/CSU "E" or "G" requirement

French 5-6 prepares the student for more advanced work in French structure, communication, and competency. Reading and writing practice is more extensive. The creative ability to use the language orally and in writing is stressed.

FRENCH 7-8 (Advanced Placement)

Grade Level: 10-12

Prerequisite: B or better in French 5-6 Teacher recommendation

Meets the UC/CSU "E" or "G" requirement

This course prepares the student for college level work and the Advanced Placement Exam. Extensive reading, writing, speaking and listening increase the student's mastery of the language and preparation for the AP Exam.

GERMAN 1-2

Grade Level: 9-12

Prerequisite: Strong basic skills

Meets the UC/CSU "E" requirement

German 1-2 is a beginning class that teaches basic understanding, speaking, and writing in German. Daily life and culture are also studied.

GERMAN 3-4

Grade Level: 9-12

Prerequisite: Strong basic skills C or better in German 1-2

Meets the UC/CSU "E" requirement

German 3-4 builds on what has been learned in German 1-2. It introduces more advanced patterns, requires more speaking, and enables the student to read and understand written texts.

GERMAN 5-6

Grade Level: 10-12

Prerequisite: Strong basic skills C or better in German 3-4

Meets the UC/CSU "E" or "G" requirement

German 5-6 covers the basic language structures of German. It refines pronunciation and increases listening and speaking skills. Reading unsimplified texts is a major part of the course.

ADVANCED PLACEMENT GERMAN 7-8

Grade Level: 10-12

Prerequisite: Strong basic skills B or better in German 5-6

Meets the UC/CSU "E" or "G" requirement

German 7-8 prepares the student for the AP exam. This course is a review of German language patterns. It includes intensive writing, speaking, and listening exercises. In addition, current social, economic and lifestyle trends are investigated using newspapers, books, films, computers and native speakers. Students should be highly motivated and be able to work independently. Most universities award course credits for a grade of 3 or better on the AP exam.

SPANISH 1-2

Grade Level: 9-12

Prerequisite: Strong basic skills, strong study skills

Meets the UC/CSU "E" requirement

Spanish 1-2 is a beginning course that develops the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Oral and written exercises, both individually and in groups, provide practice to develop these skills.

SPANISH 3-4

Grade Level: 9-12

Prerequisite: C or better in Spanish 1-2 Teacher recommendation

Meets the UC/CSU "E" requirement

Spanish 3-4 is designed to further develop the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Students will increase their vocabulary and ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Individual and group oral and written exercises help increase the creative ability to use the language.

HONORS SPANISH 3-4

Grade Level: 9-12

Prerequisite: B+ or better in Spanish 1-2 and Teacher recommendation

Meets the UC/CSU "E" requirement

This course is designed to further develop the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Students will increase their vocabulary and ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Oral and written exercises, both individually and in groups, provide practice to develop these skills. This course will provide more in-depth study, activities and opportunities for creative use of the language. Students are exposed to various aspects of Hispanic history and culture.

SPANISH 5-6

Grade Level: 10-12

Prerequisite: C+ or better in Spanish 3-4 and Teacher recommendation

Meets the UC/CSU "E" or "G" requirement

Spanish 5-6 prepares the student for the more advanced structures and communication activities required at the college level. Reading and writing practice is more extensive. The creative ability to use the language orally and in writing is stressed.

HONORS SPANISH 5-6

Grade Level: 10-12

Prerequisite: B+ or better in Honors Spanish 3-4 Teacher recommendation

Meets the UC/CSU "E" or "G" requirement

This course prepares the student for the more advanced structures and communication activities required at the college level. The four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions are practiced more extensively. Students will increase their vocabulary and ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Oral and written exercises, both individually and in groups, provide practice to develop these skills. This course will provide more in-depth study, activities and opportunities of creative use of language. Students are exposed to various aspects of Hispanic history and culture. This course prepares students for the AP Language course.

SPANISH 7-8

Grade Level: 10-12

Prerequisite: C+ or better in Spanish 5-6

Meets the UC/CSU "E" or "G" requirement

Spanish 7-8 continues to expand the creative ability to use the language orally and in writing. Emphasis is on improving competency in listening, speaking, reading, and writing. Listening comprehension exercises and tests focus on unrestricted language, that is, language not tailored specifically to the textbook. Particularly in Spanish 7, new conventions to be learned focus on compound tenses (e.g. I have gone, I had gone, I will have gone), Conditional and Conditional Perfect (I would go, I would have gone), and new Subjunctive forms to include Present Perfect, Imperfect, and Past Perfect. Readings will be from textbook and outside readings consisting of selected short stories in Spanish. Students are expected to use the language in all classroom activities, including general discussions and discussions of readings. This class is **NOT** for those students uncomfortable with the exclusive use of the language.

SPANISH 9-10

Grade Level: 11-12

Prerequisite: "B" or better in Spanish 5-6 Honors, Spanish 7-8 or AP Language

Meets the UC/CSU "E" or "G" requirement

Spanish 9-10 will refine the knowledge, skills and attitudes toward the Spanish-speaking world. Speaking, listening, reading, and writing practice will be conducted in the target language. Selected literary works will be analyzed through student discussion and theme-based writing. Topics will include: politics, current events, entertainment, sports, environment, ecology, history, geography, the arts, love/marriage, social roles, myths, legends and cultural diversity of the Spanish speaking worlds.

ADVANCED PLACEMENT SPANISH LANGUAGE 1-2

Grade Level: 11-12

Prerequisite: B or better in Spanish 5-6 Honors or Spanish 7-8 Teacher recommendation and/or testing

Meets the UC/CSU "E" or "G" requirement

Advanced Placement Spanish Language refines the skills required for advanced work equivalent to a third year college level course and for the AP Language examination. Extensive reading, writing, and speaking practice increases the competency level to that required on the AP examination. Selected literary works are analyzed.

ADVANCED PLACEMENT SPANISH LITERATURE 1-2

Grade Level: 11-12

Prerequisite: B or better in AP Spanish Language or Spanish 7-8 Teacher recommendation and/or testing.

Meets the UC/CSU "E" or "G" requirement

Advanced Placement Spanish Literature is a college-level advanced Spanish course designed to prepare students to take the Advanced Placement Spanish Literature examination. The course presents examples of literary development from the Hispanic world, acquainting students with various genres, themes, and styles of authors designated by the College Board. Emphasis will be placed on the reading of individual literary works. In addition, the four skills of language will be emphasized: listening, speaking, reading, and writing. Students will be expected to discuss the

literature, interpret themes, and make comparative analyses of the literature in writing. The main elements of literature will be included in this course.