

Poway High Course Catalog 2009-2010

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: 9-12

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.

THE ART AND HISTORY OF FLORAL DESIGN

Grade Level: 10-12

Prerequisite: None

PHS: Practical Art

Pending UC/CSU "F" requirement

The Art and History of Floral Design 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.

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 bringing 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.

http://powayusd.sdcoe.k12.ca.us/teachers/rdohm/thelab/Course_Descriptions/3D%20Computer%20Animation.htm

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.

http://powayusd.sdcoe.k12.ca.us/teachers/rdohm/thelab/Course_Descriptions/Architectural%20Design.htm

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/REFINISHING

Grade Level: 10-12

Prerequisite: None

PHS: Practical Art

This course provides entry-level training in auto body repair and refinishing. Employment possibilities include: Auto Body Technician, Auto Body Helper, Sander and Masker, Frame Straightener, Insurance Adjuster, and Body Shop Manager. Instruction covers the following areas: shop safety; proper use of welding equipment; proper use of hand, electric and pneumatic tools; hydraulic power equipment; frame equipment tools; and job-search/job-keeping skills. Paint techniques are taught along with the proper use of painting tools. Students use equipment which includes: welding equipment; hand, electric, and pneumatic tools; hydraulic power equipment; frame equipment tools; and painting tools. Completion depends upon the student's entry-level skills and rate of progress in the class.

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.

AUTO MECHANICS 2 – ONLINE

Grade Level: 11-12

PHS: Practical Art

Auto Mechanics 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. **Students will attend on-campus auto tech lab once a week. Class instruction will be done on-line**

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" and "G" requirements

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 PROCESSING

Grade Level: 11-12

Recommended prerequisite: One semester of Photography

PHS: Practical Art or Fine Art

This course provides entry-level, upgrading, and advanced training in fine art photography, photo-processing, and studio work. Employment possibilities include *Photoshop* editor, darkroom technician, and photo-journalist. Students will learn compositional elements, how to properly handle 35mm cameras, expose black and white and color films, print on black and white as well as color papers. Equipment used in this class includes black and white enlargers, studio lighting equipment and medium format cameras. *Photoshop* and working in a digital workflow are also integral parts of this class.

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.

http://powayusd.sdcoe.k12.ca.us/teachers/rdohm/thelab/Course_Descriptions/3D%20Computer%20Animation.htm

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.

THE ART AND HISTORY OF FLORAL DESIGN

Grade Level: 10-12

Prerequisite: None

PHS: Practical Art or Fine Art

Meets UC/CSU "F" requirement

The Art and History of Floral Design 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.

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.

http://powayusd.sdcoe.k12.ca.us/teachers/rdohm/thelab/Course_Descriptions/Architectural%20Design.htm

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.

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 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 visually with an emphasis on craftsmanship.

CERAMICS 3-4

Grade Level: 10-12

Prerequisite: Ceramics 1-2

PHS: Fine Art

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

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

DESIGN IN MIXED MEDIA 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Fine Art

Meets UC/CSU "F" requirement

Design in Mixed Media 1-2 introduces students to the elements and principles of design which are part of the common core of knowledge and the foundation for understanding and creating fine art. This course provides students in a studio environment with practical experience in the production of two- and three-dimensional design artwork in the mediums of printmaking, sculpture, and fiber. It will continue to develop student awareness and appreciation of the fine arts.

DESIGN IN MIXED MEDIA 3-4

Grade Level: 10-12

Prerequisite: Design in Mixed Media 1-2

PHS: Fine Art

Meets UC/CSU “F” and “G” requirements

Design in Mixed Media 3-4 continues to develop and refine students' understanding of the elements and principles of design which are part of the common core of knowledge and the foundation for understanding and creating fine art. This course provides students in a studio environment with practical experience in the production of two and three-dimensional design artwork in the mediums of printmaking, sculpture, and fiber. It will continue to develop student awareness and appreciation of the fine arts.

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” and “G” requirements

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.

JEWELRY 1-2

Grade Level: 9-12

Prerequisite: None

PHS: Fine Art

Meets UC/CSU "F" requirement

Students enrolled in Jewelry 1 and 2 will be introduced to the basic art elements and principles of design through exploration in various assignments in the medium of metal. The course will offer the student in the visual arts the opportunity to broaden the visual art experience through guided exercises, discussions, and development of technical vocabulary that emphasizes art criticism, art history, art philosophy, as well as the production of jewelry art forms.

JEWELRY 3-4

Grade Level: 10-12

Prerequisite: Jewelry 1-2

PHS: Fine Art

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

Students enrolled in Jewelry 3 and 4 will further their work with the elements and principles of design and the studio production of jewelry art forms. "Lapidary" and "casting" processes will be added to the basic "fabrication" techniques learned in Jewelry 1 and 2.

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" and "G" requirements

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 PROCESSING

Grade Level: 11-12

Recommended prerequisite: One semester of Photography**PHS: Practical Art or Fine Art**

This course provides entry-level, upgrading, and advanced training in fine art photography, photo-processing, and studio work. Employment possibilities include *Photoshop* editor, darkroom technician, and photo-journalist. Students will learn compositional elements, how to properly handle 35mm cameras, expose black and white and color films, print on black and white as well as color papers. Equipment used in this class includes black and white enlargers, studio lighting equipment and medium format cameras. Photoshop and working in a digital workflow are also integral parts of this class.

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.

ADVANCED PLACEMENT ART HISTORY 1-2**Grade Level: 10-12****Prerequisite: None****PHS: Fine Art****Meets UC/CSU "F" and "G" requirements**

AP Art History is a chronological survey of architecture, painting, sculpture, and photography of the western tradition and selected works from a variety of cultures from beyond the European tradition. The sequential presentation of the artwork studied in the course begins in the prehistoric period and ends with post-modernism. Throughout the year, specific works of art and architecture from China, India, Japan and South America, Meso-America and Africa are introduced so that students can identify the ideas and concepts that unite the art of these diverse cultures and time periods with the western tradition. Emphasis is placed on the study of the development of style within cultures, epochs, and artists' careers. Strategies of comparative analysis of works of art are also introduced and practiced in class discussion, written assignments, and tests. Formal analysis using the elements of art, principles of design and composition, and various strategies and models presented in class specifically referenced to each art form, are introduced and developed throughout the year. Students will be able to identify, analyze and evaluate the context of works of art within their respective cultures and periods to analyze each work's possible meaning and significance. Some attention is also placed on the history of technique and art making with demonstration on art materials by the instructor or guest speaker. The study of signs and symbols from various cultures is introduced to students who interpret work iconographically. Central to the Art History curriculum is the development and practice of clear writing skills using the language of art analysis. Building a broad and very specific vocabulary of art terms and knowledge of art and architecture techniques are emphasized with a weekly vocabulary quiz. Students are also encouraged to develop their ability to think critically and analytically through weekly slide comparison essays. Visual literacy is developed through daily slide presentation of art works and class discussions and a weekly slide quiz of previously studied works of 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.)

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 INFORMATION SYSTEMS****Grade Level: 9-12****Prerequisite: None****PHS: Practical Art**

Computer Information Systems offers students the fundamental computer skills that colleges and the workforce require. Not only will they develop basic that will help them throughout high school, they will be more effective students and employees which ultimately leads to greater success. Units of study include basics of Operating Systems, Internet and Electronic Communication, Word Processing, Spreadsheets, Database, and Presentation software.

MARKETING ECONOMICS**Grade Level: 9-12****Prerequisite: None****PHS: Practical Art**

Marketing Economics is a course that develops skills related to marketing functions that are important to global economics and entrepreneurship. The primary objective of this course will be for students to understand the essential financial issues facing citizens and government policy-makers as it relates to researching, developing and promoting products and services to consumers. Students will use critical thinking, reading, and writing skills to create real-world projects that lay the foundation for success in college, careers and business ownership. Two semester course to receive college credit with an A or B grade

COMPUTER INFORMATION SYSTEMS ADVANCED**Grade Level: 9-12****Prerequisite: None****PHS: Practical Art**

Computer Information Systems offers students the fundamental computer skills that colleges and the workforce require. Not only will they develop basic and advanced skills that will help them throughout high school, they will be more effective students and employees which ultimately leads to greater success. Units of study include basics of Operating Systems, Internet and Electronic Communication, Word Processing, Spreadsheets, Desktop Publishing, Database, Presentation software, and Web Design. One semester course to receive college credit with an A or B grade

Receive most up-to-date applied software and advanced technical skills

- Develop school and work-ready skills that colleges and Industry require
- Enhance technical reading and writing skills
- Project-based curriculum emphasizing real-world connections

CONSUMER & FAMILY STUDIES**CHILD DEVELOPMENT AND PSYCHOLOGY 1****Grade Level: 9-12****Prerequisite: None****PHS: Practical Art****Meets UC/CSU “G” requirement**

Child Development begins with a comprehensive study of reproduction, pregnancy, prenatal care and childbirth. The course continues with the development of the child up to age six. Emphasis is given to understanding the child's needs physically, emotionally, socially, and intellectually. Special topics of study include preparation for birth, skills for effective parenting, positive guidance and discipline, child abuse and neglect, health and safety, and special challenges for

children. Everyone has an opportunity to experience being a “parent” of a newborn baby for a weekend through “Real Care Baby”, an infant simulator.

CHILD DEVELOPMENT AND PSYCHOLOGY 2

Grades 9 – 12

Recommended Prerequisite: Child Development and Psychology 1

PHS: Practical Art

Meets UC/CSU “G” requirement

Pending Articulation

Instruction continues from the first level and includes development from school age through adolescence, child health, safety and nutrition, positive guidance techniques, inclusive child care, tolerance, child abuse and neglect, various types of early childhood programs, and developmentally appropriate curriculum development. Students learn about a variety of careers relating to children; and begin to compile a professional portfolio. Direct experience with young children through the on-campus preschool or other child care programs within the community is a major part of this course.

CHILD DEVELOPMENT AND PSYCHOLOGY 3-4/CHILD DEVELOPMENT AND PSYCHOLOGY 5 PROFESSIONAL PRACTICUM

Grades 10 – 12

Prerequisite: Child Development and Psychology 1-2

PHS: Practical Art

Pending UC “G” approval

Pending Articulation

These courses involve the advanced levels of Child Development and Psychology. They are interactive and experiential courses that provide training and upgrading of skills for entry-level positions in child development programs. Students spend more time in a community classroom setting gaining enhanced experiences with infants, toddlers, preschoolers, and school age children. In addition, students will plan, prepare, and teach thematic units and activities related to language development, math, science, music, art, and motor development. They will expand their professional portfolios, learn about job search skills, and acquire strategies for the job interview process, which will assist them in their job search quest. During the Professional Practicum, the final course level, students have an opportunity to explore and experience careers that they are interested in pursuing after graduation, inclusive of job shadowing professionals in those fields.

Note: A Child Development Career Path Program is available for students who are seriously considering a career with children. Successful completion of the Child Development Career Path Program earns the equivalent of 6 ECE college units and qualifies students for a position as Assistant Teacher in a child care center, according to the state Child Development Permit Matrix.

INTRODUCTION TO TEACHING AND LEARNING 1, 2 (Formerly Teaching Intern)

Grades: 11 and 12

Prerequisite:

Pending UC/CSU “G” approval

Pending Articulation

This course introduces the philosophical, social, and the historical roots of education in America, as well as exploring current issues and challenges in education. Students will gain knowledge and experience in the areas of various learning styles and methods, effective teaching strategies, observation types and techniques, the learning requirements of exceptional needs children, curriculum methods, planning, and development, effective classroom management strategies, and the multifaceted roles and responsibilities of a teacher. Students will apply the knowledge and skills gained throughout the course by participating in a professional practicum within a classroom environment, through serving as a Teaching Intern for a teacher on our campus. Some of the responsibilities of this role include observation, helping struggling students on a one-on-one basis, working with small groups, assisting with preparations, grading, designing and implementing lesson plans for the class, creating a final exam review activity, and helping the mentor teacher as needed. This course provides students with the opportunity to truly make a difference in the lives of their peers, and to explore teaching as a possible career choice.

CLOTHING 1- 6

Grade Level: 9-12

Prerequisite: None for Clothing 1 Prerequisite for Clothing 2-6: Completion of prior level with a grade of “C”

PHS: Practical Art

***Levels 1 & 2 A rticulated with Palomar Community College so students can earn college credit while attending high school.**

Do you have a creative side that needs to be unleashed? Are you interested in a career in the fashion industry? Clothing 1-6 offers a hands-on opportunity to create clothing and accessories of your choice and exposure to the wide assortment of careers in the fashion industry.

Students learn to construct ready-to-wear garments and accessories from commercial patterns while incorporating individual creative touches. Students engage in hands-on learning experiences through: selecting sewing equipment, patterns & fabric selection; laying out the pattern on the fabric; transferring pattern markings; cutting; fitting and altering of patterns; basic hand stitches; seam finishes; pressing techniques; while sewing on standard sewing machines. Upper level students continue to build on the sewing techniques acquired in the previous levels to include projects that involve new sewing techniques that require more detail while using challenging fabrics.

FOODS AND NUTRITION

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art

***Currently Articulating with Palomar Community College so students can earn college credit while attending high school.**

Do you like good food? Are you concerned about your weight and over-all wellness? Do you like working with others? Does a career in some aspect of the food industry interest you? Then Foods and Nutrition is the class for you.

Foods and Nutrition is a course designed for the beginner student to develop knowledge about food and how it relates to our life and basic nutrition. Basic food preparation skills will be developed along with nutrition basics, food and kitchen safety, meal planning, budgeting, and exposure to careers available within the food industry. Classroom experiences include team dynamics, discussion & films, and project preparation. Students will work in groups to plan, prepare, and evaluate foods in a kitchen unit in the classroom.

CULINARY ARTS (RESTAURANT)

Grade Level: 9-12

Prerequisite: None

PHS: Practical Art

Using the on-campus Titan Terrace Restaurant, students learn entry-level job skills in the restaurant business. Instruction includes information on planning, preparing, and serving meals in the restaurant. Jobs include cook, short order cook, cashier, host/hostess and waiter/waitress. Great food is served! Certificates are presented to successful students at the end of the semester. Articulation with Palomar College is currently in progress.

ELECTIVE CREDIT COURSES

ENGLISH PREP

Grade Level: 9

Prerequisite: Teacher recommendation

Students receive elective credit only.

English Prep is a ninth grade course designed to support students concurrently enrolled in High School English 1-2 and prepare them for the sophomore year and the CAHSEE (California High School Exit Exam). The course will focus on the identification and strengthening of specific reading, writing, listening, and speaking skills which will enable students to meet ninth grade standards. Students will be taught a variety of strategies, using both narrative and expository works, to become more effective readers and writers.

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.

WORK EXPERIENCE

Grade Level: 12

Prerequisite: Sponsor (Current Part-time job); Minimum 2.0 GPA in the previous grading period

Work Experience is open to seniors 16 years of age or older who are working at least 12 hours a week and are being supervised on the job. Emphasis is placed on recognition of the relevancy of the school curriculum for meeting career requirements, self-development, self-evaluation, human relations, and real world applications. Related instruction is required for general work experience.

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.

TEACHING INTERN

Grade Level: 11-12

Prerequisite: Teacher Recommendation

Teaching Intern is a course in which students, under the supervision of a classroom teacher, tutor other students in a specific academic subject-area such as mathematics, English, science, foreign language or social science. In addition to student tutoring, teaching interns develop and teach lessons, design instructional materials, and learn about the professional responsibilities of classroom teaching.

PLANNING AND LEADERSHIP

Grade Level: 10-12

Prerequisite: Application required

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” 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” 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” 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” 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” 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.

BRITISH LITERATURE 1-2

Grade Level: 12

Prerequisite: American Literature 1-2

Meets the UC/CSU “B” requirement

British Literature 1-2 is a course that acquaints students with various genres and themes of literature produced by Irish, English, and Scottish writers. The course will develop students’ techniques in reading, writing, speaking, and presenting. While individual courses may vary, students will generally be expected to read 20-30 pages per night and be able to discuss each night’s reading the following day.

WORLD LITERATURE 1-2

Grade Level: 12

Prerequisite: American Literature 1-2

Meets the UC/CSU “B” 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” 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” 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 and teacher recommendation

Meets the UC/CSU “B” 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 or C or better in Algebra 2A-2B

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.

HONORS GEOMETRY 1-2

Grade Level: 9-10

Prerequisite: B or better in Algebra 1-2 Teacher recommendation

Meets the UC/CSU “C” requirement

This course is a faster-paced version of Geometry 1-2, allowing time for extensive review of algebra topics to prepare students for Honors Algebra 3-4.

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.

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/TRIGONOMETRY 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.

ADVANCED CONCERT BAND

Grade Level: 10-12

**Prerequisite: Previous band experience
Meets UC/CSU "F" and "G" requirements**

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” and “G” requirements**

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 “G” 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 “G” 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 “G” 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.

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.

INTERMEDIATE/ADVANCED BASKETBALL

Grade Level: 10-12

Prerequisite: None

Intermediate Basketball is a course designed for those students who wish to play at a high intramural level of play. Individual and team fundamentals are emphasized at this level. Students will also 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.

FLAG FOOTBALL (Fall semester only)

Grade Level: 10-12

Prerequisite: None

Flag Football is an introductory course that will include rules, fundamental offensive and defensive formations, basis plays and strategies without physical contact. Students will participate in a variety of tournaments and variations of the game. Students will participate in physical fitness activities and testing.

BEGINNING RACQUETBALL**Grade Level: 10-12****Prerequisite: None**

Beginning Racquetball is a course in which students are taught the fundamental skills of three-wall racquetball, including the serve, forehand shots, backhand shots, and two- and three-wall shots, as well as rules, court position, and simple game strategies. Students will participate in fitness activities, testing, and a variety of fun game activities.

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.

INTERMEDIATE/ADVANCED SWIMMING**Grade Level: 10-12****Prerequisite: Teacher Recommendation**

Intermediate and advanced swimming is designed to give those with an advanced beginner skill level an opportunity to develop more advanced levels of swimming through stroke knowledge and improvement in style and performance. It is also designed to increase endurance and diving capabilities. Emphasis will be on the four competitive strokes, turns and starts.

TEAM SPORTS**Grade Level: 10-12****Prerequisite: None**

Team Sports is a course in which 2 or more team sports will be taught during the semester. The following activities might constitute the class: flag football, soccer, volleyball, basketball, and/or softball.

WATER POLO**Grade Level: 10-12****Prerequisite: Swimming Skills**

Water Polo is designed for intermediate and advanced level players. Previous experience is helpful but not necessary. Passing and shooting skills, offense and defense will be taught.

BEGINNING TENNIS**Grade Level: 10-12****Prerequisite: None**

Beginning Tennis is a course in which students are taught forehand and backhand drives, volleys, and the serve. Students are also taught the rules, etiquette, and beginning strategy of tennis. Students will participate in fitness activities, testing, and a variety of fun game activities.

BEGINNING VOLLEYBALL

Grade Level: 10-12**Prerequisite: None**

Beginning Volleyball is a course in which students are taught and practice the three basic skills of volleyball: bump, set, and serve. The rules and strategy of the game are also covered. Students will participate in fitness activities, testing, and lots of fun game variations.

INTERMEDIATE/ ADVANCED VOLLEYBALL**Grade Level: 10-12****Prerequisite: Beginning Volleyball**

Intermediate/Advanced Volleyball is a course in which students practice the basic skills of volleyball: serve, bump, set and the spike. Students are introduced to, and practice some advanced offensive and defensive techniques. These would include a variety of serves, serve receive techniques, advanced setting, quick attack spiking, off speed hitting and digging. Advanced strategies of the game are also covered. Students will participate in fitness activities, testing, and a variety of fun game variations.

BEGINNING WEIGHTS/AEROBICS

Grade Level: 10-12

Prerequisite: None

Beginning Weights/Aerobics is a course in which students are involved in the isotonic type of weight training. The students will perform exercises using free weights. In addition, students do a variety of different workouts to music. This course emphasizes developing and improving cardiovascular fitness, toning muscles, and improving flexibility. Students will participate in fitness activities and testing,

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

AGRICULTURAL BIOLOGY 1-2

Grade Level: 9-12

Recommended Prerequisite: Agricultural Science 1-2

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

BIOLOGY 1-2

Grade Level: 9-12

Prerequisite: Concurrent enrollment in English 1

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: Concurrent enrollment in English 1 /Teacher recommendation

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: B or better in Biology 1-2, concurrent enrollment in Geometry 1-2

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 Geometry 1-2; 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: 10-12

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: 10-12

Prerequisite: C 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 ("A" grade earned if taken during the summer) or Geoscience; completion of summer assignment

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: 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 CULTURES & CURRENT EVENTS

Grade Level: 9-12

Prerequisite: None

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

World Cultures & Current Events is a content based course that is designed to help reinforce skills such as reading, writing, note taking, conducting research, and critical thinking. While investigating the physical and cultural geography of the earth, students will be expected to apply that information to current global developments. Throughout the course students will analyze the physical, political, and cultural geography of various regions of the world including the Middle East, Asia, Africa, Latin America, Europe, and the United States while strengthening those skills necessary for success in other content areas including social studies, language arts, science and other elective courses.

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" or "G" 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" or "G" 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" or "G" 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" or "G" 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.

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.