

# CORONA-NORCO UNIFIED SCHOOL DISTRICT



## *High School Course Catalog*

## **Agriculture and Natural Resources Department**

### **AG BIOLOGY 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** D

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**Prerequisite:** None

This course is a laboratory science course for the college-bound student. The course emphasizes detailed knowledge of the central concepts, principles, and basic factual material of the following topics: introductory biology; organisms and their environment; plant classifications; plant cells; plant physiology, reproduction and growth; plant pathogens and diseases; and soils as the chemical foundation for Agricultural Biology. The Future Farmers of America Organization and the requirements of the Supervised Occupational Experience Project will be covered.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources      PATHWAY: Agriscience      COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 914001AG, 914002AG

CALPADS: 7131 - Intermediate Agriscience (Concentrator)

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### **AG CAREER DEVELOPMENT**

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course provides students with the opportunity to develop, strengthen, and enhance their leadership and competitive event participation. Emphasis will be on active FFA participation including, career development events, leadership training activities, competitive events, and awards opportunities. Additional instruction will occur in the use of computers to manage these activities and events and to complete award applications. Students will be required to maintain a California FFA record book and submit FFA award applications. Classes will meet two hours per week during zero and/or seventh period. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Agriculture

**Course Codes:** 919526

CALPADS: 7110 - Introduction to Agricultural Business

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## AG CONSTRUCTION & ENGINEERING 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Agricultural Mechanics Technology 2A-2B

This course specializes in agriculture construction and engineering. It gives the student a further review of advanced technologies of arc welding. Specific units of instruction include: welding stainless steel, cast iron, cast steel, and aluminum; and specific applications in underwater arc welding, galvanized steel, steel pipe, and arc gauging. Student projects and hands-on learning are stressed, and FFA participation is recommended.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources      PATHWAY: Agricultural Mechanics      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Agriculture

**Course Codes:** 919505, 919506

CALPADS: 7121 - Intermediate Agricultural Mechanics (Concen)

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## AG ECONOMICS

**Grades:** 12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** G

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**Prerequisite:** None

This course is designed to heighten student awareness of the economy and how it is affected by agriculture. Instruction combines theory with application for an integration of economic theory and agriculture principles. Units of instruction include: the stock market; supply and demand; production factors; floors and ceilings; macroeconomics; monetary policy; federal reserve market; capital resources; costs and returns; foreign trade and economic developments in developing countries. Future Farmers of America and Supervised Occupational Experience Project participation are recommended.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources      PATHWAY: Agricultural Mechanics, Agriscience, Floral Design,  
Ornamental Horticulture      COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Economics

**Course Codes:** 912007AG

CALPADS: 7112 - Advanced Agricultural Business (Capstone)

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## AG FOOD SCIENCE & TECHNOLOGY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

This is an introductory course in food science and technology. Students will learn about food science, which covers the substances we eat, their makeup including chemistry, physics and microbiology of food and the processes used to alter these substances to make them more suitable and available for consumption for a longer time. The students will learn about how the food industry has emerged by looking at a brief history of food production, food and culture - why we eat what we eat, food laws and safety, and food business. They will also learn about food equipment and safety, food nutrition and health, growing and recognizing good food. They will learn basic meat, poultry and game identification and some basic food preparation techniques. On the completion of this course students should be able to apply at entry-level jobs. As an integral part of this course the student will learn about and participate in the FFA, a premier national youth leadership organization. In addition, they will also cover the requirements of the Supervised Agriculture Experience Project (SAEP).

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Ornamental Horticulture

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Agriculture

**Course Codes:** 919531, 919532

CALPADS: 7172 - Advanced Plant Science (Capstone)

## AG GOVERNMENT

**Grades:** 12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** A

**Prerequisite:** None

America's agricultural industry is the mainstay of the United States. An understanding of the American political process, its influence on agriculture and the individual will be the main focus. Students will study the constitution, governments, federalism and the U.S. Farm Bill and policies. To gain a working knowledge of which agencies of government affect particular problems in the lives of citizens, students will be prepared to vote, to reflect on their responsibilities, and to participate in community activities. Hands-on activities are stressed. Supervised agricultural experiences and FFA participation are required.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Agricultural Mechanics, Agriscience, Floral Design,

Ornamental Horticulture COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Government

**Course Codes:** 912008AG

CALPADS: 7112 - Advanced Agricultural Business (Capstone)

**AG LEADERSHIP 1A-1B****Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None**Prerequisite:** None

America's agricultural industry is the mainstay of the United States economy. This course will allow the student to diversify his/her study into a very competitive and complex field of agricultural leadership and management. This course will cover: leadership categories and styles; developing leaders; communication skills; reciting; prepared speaking; extemporaneous public speaking; basic parliamentary procedure; group dynamics; and conducting successful meetings. Hands-on activities are stressed. Supervised agricultural experiences and FFA participation are recommended. This course may be repeated for duplicate credit.

**CTE:**  
**INDUSTRY SECTOR:** Agriculture and Natural Resources      **PATHWAY:** Floral Design      **COURSE SEQ:** Year 3**Articulated Course:****Grad Req:** Agriculture**Course Codes:** 919520, 919521

CALPADS: 7111 - Intermediate Agricultural Business (Concent)

**AG MACHINE-TRACTOR 4A-4B****Grades:** 12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None**Prerequisite:** Agricultural Mechanics Technology 2A-2B

This course completes the agriculture mechanics sequence by giving the student basic hands-on experience in tractors. Specific units of instruction include: an introduction to modern tractors; preventative maintenance; and operation, repair and storage of tractors. Student projects and hands-on learning are stressed, and FFA participation is recommended.

**CTE:**  
**INDUSTRY SECTOR:** Agriculture and Natural Resources      **PATHWAY:** Agricultural Mechanics      **COURSE SEQ:** Year 4**Articulated Course:****Grad Req:** Agriculture**Course Codes:** 919507, 919508

CALPADS: 7122 - Advanced Agricultural Mechanics (Capstone)

**AG MECHANICS 1A-1B****Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G**Prerequisite:** None

This course will give the student basic knowledge of theoretical and hands-on knowledge of the general field of agricultural mechanics. Specific units of instruction include: career options; shop orientation; personal safety in the shop; record management; hand tools; fasteners and hardware; layout tools and procedures; selecting, cutting, and bending metal; fastening metal; and preparing and painting metals and woods. Student projects and hands-on learning are stressed, and FFA participation is recommended.

**CTE:**  
**INDUSTRY SECTOR:** Agriculture and Natural Resources      **PATHWAY:** Agricultural Mechanics      **COURSE SEQ:** Year 1**Articulated Course:** Y**Grad Req:** Agriculture**Course Codes:** 919501, 919502

CALPADS: 7121 - Intermediate Agricultural Mechanics (Concent)

## AG MECHANICS TECHNOLOGY 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Agricultural Mechanics 1A-1B

This course explores the art and skill of arc welding. Specific units of instruction include: fundamentals; safety; installation and maintenance; variables in metal fabrication; consumables and machinery; and welding costs. Student projects and hands-on learning are stressed, and FFA participation is recommended.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Agricultural Mechanics

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Agriculture

**Course Codes:** 919503, 919504

CALPADS: 7122 - Advanced Agricultural Mechanics (Capstone)

## AG NATURAL SCIENCE 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** Algebra

Agricultural Natural Science is a college preparatory course, which includes chemistry, physics, astronomy, soil science, California water, and oceanography components that align with the District and State Science Standards. Laboratory work investigates core concepts in the physical science standards and is designed to reinforce agricultural subject area content. This course is intended to meet all state mandated learning essentials in the area of physical science while integrating environmental science and physical science using agricultural concepts as themes, and the agricultural facility as an environment for students to gain laboratory experiences. Major course components included: Newton's Laws; energy transfers; properties of wave motion and electric and magnetic phenomena; periodic trends; bonding; conservation of mass and energy; nature of matter; properties of solutions; atomic structure; structure, scale and change of the solar system; the Earth's atmosphere; geology; physical and chemical properties of rocks and minerals; plate tectonics; role of the ocean in weather and climate; geochemical cycles; natural resources and natural hazards; and how life earth affects the atmosphere. FFA and Supervised Agricultural Experience Programs are required components of this class.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Agriscience

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 914501AG, 914502AG

CALPADS: 7171 - Intermediate Plant Science (Concentrator)

## AG SKILLS/PROJECTS-COMMUNITY

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** Student must have a supervised agricultural experience program (SOEP) as verified by an agriculture instructor.

This course provides students with the opportunity to strengthen their Supervised Occupational Experience Programs and Supervised Agricultural Experience Programs. Emphasis will be on intensive hands-on learning activities, which are conducted in the local community. Programs will include livestock projects, horticulture projects, floriculture projects, vegetable projects, agricultural mechanics projects, and agricultural work experience projects. FFA participation is required. Additional instruction will occur in the use of computers to manage these projects and award applications. Students will be required to maintain a California FFA record book and submit FFA award applications. Classes will meet two hours per week during zero and/or seventh period. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Agriculture

**Course Codes:** 919525

CALPADS: 7100 - Introduction to Agriculture and Natural Res

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## AG SKILLS/PROJECTS-SCHOOL

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor approval

This course provides students with the opportunity to strengthen their Supervised Occupational Experience Programs and Supervised Agricultural Experience Programs. Emphasis will be on intensive hands-on learning activities in the agriculture department's laboratory. Programs will include cooperative livestock projects, horticulture projects, floriculture projects, vegetable projects, and agricultural mechanics projects. Out-of class supervised agricultural experiences are strongly encouraged and FFA participation is required. Additional instruction will occur in the use of computers to manage these projects and award applications. Students will be required to maintain a California FFA record book and submit FFA award applications. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Agriculture

**Course Codes:** 919524

CALPADS: 7100 - Introduction to Agriculture and Natural Res

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## ART & HISTORY OF FLORAL DESIGN 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** None

This course gives the student a practical look at the floriculture industry in California. The major emphasis will be on culture, care and processing of floral crops, as well as floral design principles and corsage construction. The course is designed to lay the foundation for an entry level position in the floriculture industry. Specific units of instruction include an introduction to floriculture, culture of floral crops, processing of floral crops, identification of floral crops, and tools, equipment and supplies. Basic fundamentals and principles are emphasized. This is a project oriented laboratory class that encourages the student to explore the medium and their own creative potential. Participation in FFA is recommended.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Floral Design

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915035, 915036

CALPADS: 7164 - Intermediate Floral Design (Concentrator)

## CHEMISTRY & AGRISCIENCE 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:**

This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students will examine properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research program to be conducted throughout the first semester of the course. To complete that whole project each student will investigate and test an Agriscience research question by formulating a scientific question related to the course content, formulating a hypothesis based on related research, conducting an experiment to test the hypothesis, collecting quantitative data, and forming a conclusion based on analysis of the data. The result of this research program will be an in depth research and experimentation paper that is technically written, based on scientific protocol, and cited using APA formatting. Additionally, students will develop and present a capstone soil management plan for agricultural producers, using the content learned throughout the course. Throughout the course, students will be graded on participation in intracurricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Agriscience

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 914507AG, 914508AG

CALPADS: 7132 - Advanced Agriscience (Capstone)



## EQUINE SCIENCE 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

Equine Science is a year long course designed to teach students about the equine industry including equine evolution, selection, nutrition and feeding, breeding, facilities, handling and health management. Emphasis will be placed on sound management practices. Instruction will also include evaluation and selection of horses based on breed and performance criteria. Topics include basic anatomy and its relation to function, breed type, and characteristics. Emphasis will be given to breed standards and rules of judging performance horses.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Agriscience

COURSE SEQ: Year 3

**Articulated Course:** Y

**Grad Req:** Agriculture

**Course Codes:** 919533, 919534

CALPADS: 7141 - Intermediate Animal Science (Concentrator)

## HORTICULTURE SCIENCE 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** None

This course will give the student basic knowledge in plant science, as well as the use of fertilizers, pesticides and irrigation. Specific units include: how plants grow; plant propagation; SOEP's; basic accounting, greenhouse and nursery crops; and the FFA. Hands-on approaches to learning this science are emphasized.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Ornamental Horticulture

COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 914015, 914016

CALPADS: 7161 - Intermediate Ornamental Horticulture (Conce

## LANDSCAPE DESIGN & MAINTENANCE 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Horticulture

This course will give students a more intense look at the art and skill of landscape design and maintenance. Theory and hands-on skills are emphasized for proper career placement. Student projects and FFA participation are recommended. Specific units of instruction include: careers; principles of landscape design; computers in the landscape industry; and selection and use of plant materials.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Ornamental Horticulture

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Agriculture

**Course Codes:** 919511, 919512

CALPADS: 7162 - Advanced Ornamental Horticulture (Capstone)

## VETERINARY SCIENCE 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** Agricultural Biology 1A-1B and Agricultural Natural Science 1A-1B or Biology 1A-1B and Natural Science 1A-1B or instructor approval

Course work will include anatomy and physiology of domestic animals, nutrition, parasites and diseases. Course will also provide a study of common diseases of both small and large animals and the cause and means of prevention. Students will participate in hands-on labs including dissections, animal behavior, and basic veterinary procedure. Guest lectures, veterinarians, vector control officials, and animal health technicians will also be provided to add knowledge of current practices that are implemented in the animal health fields. FFA and Supervised Agricultural Experience Programs are required components of this class.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Agriscience

COURSE SEQ: Year 3

**Articulated Course:** Y

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 914017, 914018

CALPADS: 7142 - Advanced Animal Science (Capstone)

## ADVANCED FLORAL DESIGN & COMPOSITION 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Floral Design

This course is based on what the industry expects from a typical designer in a typical flower shop. Major emphasis will be placed on design techniques introduced in the prerequisite course. Proper care and handling of different species of flowers, foliage and materials will be studied in much more depth. In addition, emphasis will be placed on creating seasonal displays for the Norco High Agriculture Department Cougar Boutique flower shop. A culminating project will be required as part of the class and the student portfolio. Hands-on activities are stressed. Supervised agricultural experiences and FFA participation are recommended.

**CTE:**

INDUSTRY SECTOR: Agriculture and Natural Resources

PATHWAY: Floral Design

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915037, 915038

CALPADS: 7164 - Intermediate Floral Design (Concentrator)

## **Arts, Media and Entertainment Department**

### **2D DESIGN & COLOR 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course offers students the exposure to the basic elements of design and color through the use of space and letter forms. Students will experience the study of historical and modern letter forms through the use of a wide variety of tools, papers, and materials. Combined with the actual learning and construction of the letter are design and color techniques to complete a variety of projects and finished pieces. Students interested in further developing personal skills and craftsmanship may repeat the class.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915015, 915016

CALPADS: 7216 - Introduction to Visual/Commercial Art

### **3D ANIMATION 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

This course is designed to develop both the awareness and appreciation for the art of animation while incorporating technical and computer skills to produce 2 Dimensional and 3 Dimensional designs. The students will incorporate the artistic background of story-boarding, color, texture, and design/animation theory with technical computer skills, including the Internet, multi-media, video incorporation, file management, as well as other hardware and software considerations.

**CTE:**  
INDUSTRY SECTOR: Arts, Media & Ent. – Animation      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Industrial Technology

**Course Codes:** 918523, 918524

CALPADS: 7214 - Intermediate Animation (Concentrator)

### 3D ANIMATION 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Visual Arts 1A-1B or Computer-Aided Drafting (CAD) 1A-1B or Computer Science or instructor approval

This course is an introduction to basic 3D Computer Animation, major software components, basic concepts of object-oriented programming as well as 2D and 3D design. The purpose of the course is to develop both the awareness and appreciation for the art of animation while incorporating technical and computer skills to produce 2 Dimensional and 3 Dimensional designs. The students will incorporate the artistic background of storyboarding, color, texture, and design/animation theory with technical computer skills, including the Internet, multi-media, video incorporation, file management, as well as other hardware and software considerations. This course is an introduction to basic 3D Computer Animation, major software components, basic concepts of object-oriented programming as well as 2D and 3D design. The purpose of the course is to develop both the awareness and appreciation for the art of animation while incorporating technical and computer skills to produce 2 Dimensional and 3 Dimensional designs. The students will incorporate the artistic background of storyboarding, color, texture, and design/animation theory with technical computer skills, including the Internet, multi-media, video incorporation, file management, as well as other hardware and software considerations.

**CTE:**

INDUSTRY SECTOR: Arts, Media & Ent. – Animation

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 2

**Articulated Course:** Y

**Grad Req:** Industrial Technology

**Course Codes:** 918525, 918526

CALPADS: 7215 - Advanced Animation (Capstone)

### 3D DESIGN 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** "C" or better in Visual Arts 1A-1B or instructor approval

This course is designed to provide students an opportunity to further explore three-dimensional design, forms and their surfaces. New techniques and methods will be introduced as familiar ones are strengthened. Materials may include clay, fibers, metals, wood, glass, and leather in the design and construction of three-dimensional projects. The development of craftsmanship and/or a sense of design will be stressed along with creative expression.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915017, 915018

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent

### ADVANCED 3D ANIMATION 3A-3B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** 3D Animation 2A-2B or Instructor approval

CAD 3D Animation 3A/3B is designed as an advanced real world application of 3D Animation, its processes, industry standards and tools used in the 3d animation fields. Students will develop their spatial visualization and problem solving skills in a "hands-on" laboratory setting. Students will use animation software to solve real world situations that involve creating 3D computer graphics. Students will utilize progressive 3D computer software to communicate their ideas through the creation of movies, games, presentations and portfolios. Students will understand how to choose which animation tool to use to be most efficient in the workplace. Students will produce movies of the completed projects and provide electronic files in a variety of graphic outputs. Students will produce portfolios of the completed work

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918521, 918522

CALPADS: 7214 - Intermediate Animation (Concentrator)

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### ADVANCED 3D DESIGN 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** "C" or better in Visual Arts 1A-1B or instructor approval

This course is designed for the advanced student. The elements and principles of three-dimensional design will be taught through the design, formation and finishing of sculptural and/or jewelry forms. A high level of creativity and craftsmanship will be stressed. As students gain proficiency, they will be encouraged to utilize various techniques and materials to produce quality products. If repeated, fundamentals are reinforced and construction methods of a higher level are introduced to meet individual student needs. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915019, 915020

CALPADS: 7218 - Advanced Visual/Commercial Art (Capstone)

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## ADVANCED ELECTRONIC KEYBOARDING

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** F

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**Prerequisite:** "C" or better in beginning piano or instructor permission

This course is a continuation of Beginning Electronic Keyboarding, or for students who have had prior keyboarding lessons and have instructor permission. Students will play pieces in a variety of styles, based on their individual skill level. Students will continue to study music theory, instrument technique and performance technique. This course may be repeated for duplicate credit.

Notes: To complete the yearlong course you must take Beginning Electronic Keyboarding 1st Semester.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915138

CALPADS: 7233 - Introduction to Professional Music

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## ADVANCED GRAPHIC DESIGN 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Graphic Arts 1A-1B and instructor approval

This course is open to students working on specialized projects. It is an individualized program with each student working in his/her own area of choice.

**CTE:**

INDUSTRY SECTOR: Arts, Media & Ent. – Graphic Design      PATHWAY: Graphic Production Technologies      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** ARTS, MEDIA & ENTERTAINMENT

**Course Codes:** 918565, 918566

CALPADS: 7211 - Intermediate Graphic Design (Concentrator)

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## ADVANCED GUITAR

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in Beginning Guitar

This course is a continuation of Beginning Guitar. Students learn to play the basic chords in the keys of C, G, A, E, Em, and D. Students learn to play all first position notes. Also students will learn some advanced chording, fingering, and picking patterns. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915134

CALPADS: 7233 - Introduction to Professional Music

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## ADVANCED PERCUSSION

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** F

**Prerequisite:** "C" or better in Beginning Percussion or instructor approval

This course will focus on basic and advanced percussion techniques and practices. The students will learn necessary rudiments and music reading skills that can be used in all percussion playing. Students who complete this class should be able to participate at some level in the various band classes offered. The students will be exposed to percussion music and instruments from other cultures. They will learn the history of percussion music and its importance as a form of communication. The students will perform selected percussion music at concerts or recitals. The students will be instructed in listening skills and self-evaluation techniques that will enhance their performances. The students will listen to other percussionists and will be able to distinguish between proper and improper techniques. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915136

CALPADS: 7233 - Introduction to Professional Music

## ANIMATION 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Visual Arts 1A-1B or instructor approval

Animation 1A-1B will introduce students to the beginning principles of traditional cel animation and to the various technology and materials used in the production of this art form. The purpose of the course is to develop awareness and appreciation of the art of animation and to provide opportunities for creative expression using the tools and technology of animation. It will offer a foundation for those students who wish to pursue careers in animation, film, fine art or related fields. Students will maintain a portfolio containing cel drawings, model and turnaround sheets, storyboards, background paintings, and VHS animation recordings. This class is the prerequisite to Animation 2A-2B.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915009, 915010

CALPADS: 7214 - Intermediate Animation (Concentrator)

## ANIMATION 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Animation 1A-1B

Animation 2A-2B will present students the advanced principles of traditional cel animation and to the various technology and materials used in the production of this art form. The purpose of the course is to further develop awareness and appreciation of the art of animation and to provide opportunities for creative expression using the tools and technology of animation. It offers opportunities to use advanced animation and editing technology and software for those students who wish to pursue careers in animation, film, fine art, audio technology or related fields. Students will maintain a portfolio containing cel drawings, model and turnaround sheets, storyboards, background paintings, and VHS and DVD and digital animation recordings.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 905011, 915011, 915012

CALPADS: 7215 - Advanced Animation (Capstone)

## AP ART HISTORY 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "C" or better in Language Arts 2A-2B

This course is a one-year course designed to provide the same instruction as an introductory college course in art history: an aesthetic appreciation of architecture, sculpture, painting and other art forms within historical and cultural contexts. Students examine major forms of artistic expression of the past and present as well as a variety of cultures in corresponding proportion to the AP Art History examination. Students learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. Students will study all styles and methods of artistic production as they look at, two- and three-dimensional art works, architecture, and other artifacts from the Paleolithic period through the present day. A critical examination of the historical, political, philosophical, religious, economic, social, and technical climate surrounding each period of production will be used to explore the significance and meaning behind the creation of works of art. Students are encouraged to prepare for the Advanced Placement Examination in History of Art.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 935005, 935006

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent



## AP MUSIC THEORY 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Student must be able to read and notate music or instructor approval

The ultimate goal of this Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. This course is primarily designed for the student who plans to pursue music at the collegiate level, or as a career. The course will instill mastery of the rudiments and terminology of music, including: notation, intervals, scales and keys, chords, metric organization, and rhythmic patterns. Students will progress to include more sophisticated tasks such as: composition of a bass line for a given melody, implying appropriate harmony, realization of a figured bass, realization of a Roman numeral progression, and analysis of repertoire. The development of aural skill is a primary objective. Students will develop their "musical memory" and their ability to articulate responses to formal, stylistic, and aesthetic qualities of the works. In addition to European classical styles, music from other cultures will be covered in order to prepare students for assessment.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 935139, 935140

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## AP STUDIO ARTS: 2D 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in Drawing and Painting 1A-1B or instructor approval

This course is designed for the highly motivated and responsible student interested in the serious study of art. Students will use elements of art and principles of design to create and support their ideas and demonstrate understanding of design principles as applied to a 2-D surface whether physical or virtual. It will provide an intensive examination of the process and content of visual expression through two-dimensional works. Emphasis is placed on the quality, concentration, and breadth of the student's production and experiences. The goal of this course is the completion of a portfolio of artwork produced by the student in any two-dimensional process or medium, including, but not limited to: graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, illustration, painting, printmaking, and still images from videos or films, etc. The portfolio, of which the majority has been produced this year, will be completed for evaluation in alignment with College Board guidelines. This advanced placement course requires the student to work outside of the classroom and scheduled class time.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 935015, 935016

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent

**AP STUDIO ARTS: 3D 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** F**Prerequisite:** "B" or better in Drawing and Painting 1A-1B or instructor approval

This course is designed for the highly motivated and responsible student interested in the serious study of art. Students will use elements of art and principles of design to create and support their ideas and demonstrate understanding of design principles as applied to a 3-D surface whether physical or virtual. It will provide an intensive examination of the process and content of visual expression through three-dimensional works. Emphasis is placed on the quality, concentration, and breadth of the student's production and experiences. The goal of this course is the completion of a portfolio of artwork produced by the student in any three-dimensional process or medium, including, but not limited to: figurative and nonfigurative sculpture, architectural models, metal work, ceramics, three-dimensional fiber arts/fashion, jewelry and body adornment, and time-based media. The portfolio, of which the majority has been produced this year, will be completed for evaluation in alignment with College Board guidelines. This advanced placement course requires the student to work outside of the classroom and scheduled class time.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** Fine Arts**Course Codes:** 935017, 935018

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent

**ART 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** "C" or better in Visual Arts 1A-1B or instructor approval

This course is designed for students interested in increasing skill and understanding in the art techniques and media. Design, painting, drawing, graphic arts, sculpture, and art appreciation will be among the areas of study. Projects will be assigned to encourage a high level of individual creativity and craftsmanship.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** Fine Arts**Course Codes:** 915005, 915006

CALPADS: 7216 - Introduction to Visual/Commercial Art

## ART FOR ILLUSTRATION 1A-1B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Visual Arts 1A-1B or equivalent

This course addresses many aspects of illustration with emphasis on line drawing, strip cartoons, and animation. Projects may include the use of cartooning, line drawing, story strips and boards, sculptural forms and computer animation as a communication tool. As the student progresses through the course, a high level of personal creativity will be stressed to communicate ideas, events, and personal perspectives. The history of illustration, cartoon, and animation will be covered. Students will maintain a portfolio that will include a journal, sketches, and other pertinent works of art.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915007, 915008

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent

## BARITONE CHOIR 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** None

This course provides students with the opportunity to apply vocal skills in performing a varied repertoire of music in the baritone range. They will listen to, read, notate, analyze, and describe music. Students will analyze the role of music in past and present cultures throughout the world, noting cultural diversity as it relates to music, musicians, and composers. Students will evaluate the effectiveness of performances using specific musical criteria. Students will apply what they learn in music across subject areas and careers. Students are required to work outside of the classroom, including performance preparation, performances and critiques. This course may be repeated for duplicate credit.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915203, 915204

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## BEGINNING BAND 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course will focus on basic skills and techniques for music performance on various band instruments. The students will learn to read music and to reproduce music on their chosen instrument. The students will learn the history of each instrument and its role in the development of music. They will learn music history and the development of musical styles. The students will perform simple music from various cultures.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915101, 915102

CALPADS: 7233 - Introduction to Professional Music

## BEGINNING ELECTRONIC KEYBOARDING

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** F

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**Prerequisite:** None

This course will cover the basic aspects of playing the keyboard. Students will learn to read and play simple keyboarding pieces. Additionally, students will learn basic music theory, instrument technique and performance techniques.

Notes: To complete the yearlong course you must take Advanced Electronic Keyboarding 2nd Semester.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915137

CALPADS: 7233 - Introduction to Professional Music

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## BEGINNING GUITAR

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course will cover the basic aspects of guitar playing. Students will learn to read, play, and correctly finger all available first-position notes. Students will learn to play simple chords using proper hand, wrist, and arm position.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915133

CALPADS: 7233 - Introduction to Professional Music

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## CERAMICS 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** None

This course introduces the clay medium, its qualities and potential. Students will explore hand-built and wheel-thrown construction techniques, glazing, and surface decoration. Students will gain an understanding of the elements and principles of two-and-three-dimensional design as they solve problems in construction and decorating processes.

After the basic techniques are mastered, students will be encouraged to explore the medium and their own creative potential. Students will develop aesthetic perceptions by using critical thinking skill, such as observation, discrimination, comparison, contrast, and imagination. Contemporary statements may be made through an understanding of the historical importance clay has played in past cultures. Students will be introduced to potential career opportunities and technological experiences. Students will maintain a portfolio that will include a journal, sketches, and other pertinent works of art.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915025, 915026, 975025LS, 975026LS

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent

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## CERAMICS 2A-2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Ceramics 1A-1B

This course is a continuation of Ceramics 1A-1B. Students continue to refine their construction, glazing, and decoration techniques.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915027, 915028

CALPADS: 7218 - Advanced Visual/Commercial Art (Capstone)

## CERAMICS 3A-3B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in Ceramics 2 or instructor approval

This course offers students a high level of interest in making personal statements in the clay medium by creating products of high quality. Students will further develop their sense of style and craftsmanship in working with clay. Students will have the opportunity to study the works of ceramics craftsmen as it relates to their own personal development. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915029, 915030

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent

## CONCERT BAND 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "King Karl King Honor Band" or equivalent event. This may include private instrumental lessons, independent study and research.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Performing Arts      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915103, 915103Z, 915104, 915104Z

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## CONCERT BAND 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation, and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instructional lessons, independent study, and research.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915105, 915106

CALPADS: 7235 - Advanced Professional Music (Capstone)

## CONCERT BAND 3A-3B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include private instrumental lessons, independent study, and research. To prepare students for the possibility of college auditions through research and performance.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915107, 915108

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## CONCERT BAND 4A-4B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include private instrumental lessons, independent study, and research. To prepare students for the demands of college music courses through research of history and music theory. To consider the purchase of an instrument to help meet the demand of the mature musician.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915109, 915110

CALPADS: 7235 - Advanced Professional Music (Capstone)

## CONCERT CHOIR 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** None

This course provides students with the opportunity to apply vocal music skills in performing a varied repertoire of music. They will listen to, read, notate, analyze and describe music. Students will analyze the role of music in past and present cultures throughout the world, noting cultural diversity as it relates to music, musicians and composers. Students will evaluate the effectiveness of performances using specific musical criteria. Students will apply what they learn in music across subject areas and to careers. Students are required to work outside of the classroom, including performance preparation, performances and critiques. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915201, 915202, 975201LS, 975202LS

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## CONTEMPORARY CHOIR 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Instructor approval

This course offers students the opportunity to study and perform music from the 1920's through present day with an emphasis on jazz styles and improvisation. Some choreography is involved as well as instrumental accompaniments. Contemporary Choir is a performance-oriented group and, as such, studies the concepts of stage presence and professionalism. Festivals and competitions are included. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915205, 915206

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## CONTEMPORARY MEDIA 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Visual Arts 1A-1B or Theatre Arts 1A-1B

This course focuses on developing students understanding of contemporary media's Influence on all aspects of today's world. Students will employ their understanding of contemporary media methods, skills and processes to create personal artistic statements. Students will learn visual and media literacy concepts, develop critical viewing and analysis skills, examine social responsibility and ethics Issues, cover the elements and principles of design and study contemporary media artists. Students will also apply their knowledge and skills to demonstrate their understanding by creating Individual and group projects, writing weekly journals, making group presentations, taking traditional written tests, reflections, and written critiques.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915521, 915522

CALPADS: 7247 - Intermediate Multimedia Production (Concent

## CONTEMPORARY MEDIA PRODUCTION 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** For communications or contemporary media career path completion of Contemporary Media 1A-1B; teacher recommendation

This course focuses on developing student's ability to produce various forms of media, both in front of and behind the camera. Students will employ their understanding of contemporary media production methods, skills and processes to create personal artistic statements. Students will learn visual and medial literacy concepts, develop critical viewing and analysis skills, examine social responsibility and ethics issues, and cover the elements of storyboarding and principles of set design. Students will also apply their knowledge and skills to produce individual and group projects for broadcast; they will also design sets, and use various lighting techniques to enhance the media experience. Students will make group presentations, take traditional written tests, and write reflections and critiques.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915523, 915524

CALPADS: 7247 - Intermediate Multimedia Production (Concent



## CONTEMPORARY MEDIA PRODUCTION 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** For communications or contemporary media career path Completion of Contemporary Media 1A-1B; Teacher Recommendation

This course focuses on developing student's ability to produce various forms of media, both in front of and behind the camera. Students will employ their understanding of contemporary media production methods, skills and processes to create personal artistic statements. Students will learn visual and medial literacy concepts, develop critical viewing and analysis skills, examine social responsibility and ethics issues, and cover the elements of storyboarding and principles of set design. Students will also apply their knowledge and skills to produce individual and group projects for broadcast; they will also design sets, and use various lighting techniques to enhance the media experience. Students will make group presentations, take traditional written tests, and write reflections and critiques.

Notes: Completion of Contemporary Media 1A-1B; Teacher Recommendation

**CTE:**

INDUSTRY SECTOR: Arts, Media & Ent. – Media Arts

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915526, 915527

CALPADS: 7248 - Advanced Multimedia Sound Production  
(Capst

## DANCE PERFORMANCE 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Instructor approval

This course will provide students with an overview of dance. Units will be taught in Ballet, Modern Dance, Jazz Dance, Ethnic Dance, dance improvisation, choreography, dance production, and dance history. This one-year course will be offered for either Fine Arts or Physical Education graduation credit and may be repeated at the intermediate and/or advanced levels for credit.

Notes: Students must agree before registration to a commitment of additional hours outside of class time. Students will perform at various events throughout the year, but their main performance will be an annual Spring Dance Concert. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Electives, Fine Arts, Physical Education

**Course Codes:** 915301, 915301P7, 915302, 915302P7, 915425, 915426, 917022, 917022P7, 917023, 917023P7, 919181S

CALPADS: 7231 - Intermediate Dance/Choreography  
(Concentrat

## DANCE PERFORMANCE 3A-3B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Instructor Approval

Dance Performance 3- Production is designed to be an advanced level Dance course for 10th, 11th, and 12th grade students focusing on the Composition and Production of Original Student work. Enrollment in the course is through instructor approval only, with pre-requisite completion of Dance Performance 1 and/or Dance Performance 2.

This course encourages the development of compositional techniques to move students to an advanced level of mastery and create an awareness of principles such as form, matter, context, purpose, weight, space, time, effort, and shape, introducing elements, methods and structures of dance composition. This course enables the student artist to develop his or her individual creativity. Through advanced compositional studies, they further master articulation and communication of ideas, as well as the analysis and critical evaluation of movement. Student artists will have the opportunity to perfect movement invention; to expand variety, contrast, and originality in their choreographic process; and to further develop their personal aesthetic range.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915305, 915306

CALPADS: 7231 - Intermediate Dance/Choreography  
(Concentrat

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## DIGITAL IMAGING 1A-1B

**Grades:** 11-12

**Duration:** Semester

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:**

Instruction covers computer graphic design, effective use of text and images, layout, and composition. Students will prepare a variety of projects incorporating digital imaging, photo imaging, photo editing, special effects, color correction, and image preparation for publication in print and on the web.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 919307X, 919308X

CALPADS: 7211 - Intermediate Graphic Design (Concentrator)

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## DIGITAL PHOTOGRAPHY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** None

This is an introductory course in digital photography. The initial focus is on the camera and the ability to see and express an idea or message through a photographic image. The second part of the class focuses on the computer, digital manipulation, output, and display. The ability to understand and interpret visual imagery is a necessary part of contemporary culture so that students can become active participants rather than passive consumers. The historical development of photography and its impact on culture are stressed in addition to showing students how they can create and manipulate images to express themselves and influence others.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915503, 915504, 915528

CALPADS: 7211 - Intermediate Graphic Design (Concentrator)

## DRAWING & PAINTING 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "C" or better in Visual Arts 1A-1B or instructor approval

This course is designed for students with advanced interests in increasing technical skills in drawing and painting mediums and techniques. Students will explore problems in representation and interpretation leading to individual expression and a strong use of the principles of composition. Projects may include watercolor, oil, acrylic, charcoal, scratch board, pencil, and ink. The expression of artists past and present will be presented. The individual student may pursue mediums and techniques at a more personal level, while developing a more academic understanding of traditional and contemporary expression. Students will be expected to produce a quantity and quality of work respective of their level of achievement. Students will maintain a portfolio that will include a journal, sketches, and other pertinent works of art.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915013, 915014

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concentrator)

## FESTIVAL WINDS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature, as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instrumental lessons, independent study and research. To prepare students for the possibility of college auditions through research and performance. To consider the purchase of an instrument to help meet the demands of the mature musician. This course will address the five component strands of the state VPA standards. It will require proficiency beyond the introductory level. Work outside the class will be required (ex. Sectionals, private lessons, rehearsals, etc.).

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915121, 915122

CALPADS: 7235 - Advanced Professional Music (Capstone)

## FESTIVAL WINDS 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature, as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instrumental lessons, independent study and research. To prepare students for the possibility of college auditions through research and performance. To consider the purchase of an instrument to help meet the demands of the mature musician. This course will address the five component strands of the state VPA standards. It will require proficiency beyond the introductory level. Work outside the class will be required (ex. Sectionals, private lessons, rehearsals, etc.).

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915123, 915124

CALPADS: 7235 - Advanced Professional Music (Capstone)

### FESTIVAL WINDS 3A-3B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature, as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instrumental lessons, independent study and research. To prepare students for the possibility of college auditions through research and performance. To consider the purchase of an instrument to help meet the demands of the mature musician. This course will address the five component strands of the state VPA standards. It will require proficiency beyond the introductory level. Work outside the class will be required (ex. Sectionals, private lessons, rehearsals, etc.).

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915125, 915126

CALPADS: 7234 - Intermediate Professional Music (Concentrat

### FESTIVAL WINDS 4A-4B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature, as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instrumental lessons, independent study and research. To prepare students for the possibility of college auditions through research and performance. To consider the purchase of an instrument to help meet the demands of the mature musician. This course will address the five component strands of the state VPA standards. It will require proficiency beyond the introductory level. Work outside the class will be required (ex. Sectionals, private lessons, rehearsals, etc.).

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915127, 915128

CALPADS: 7235 - Advanced Professional Music (Capstone)

## HISTORY OF MOTION PICTURES 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** None

The ability to discern visual images is so important in today's culture, and unfortunately many primary and secondary schools, for various reasons, do not provide courses that allow students to explore this topic. While it is still important to teach students to analyze the written word, most expose themselves to film and television much more than reading, and high schools have a responsibility to prepare them to be active critics of all types of images, rather than passive consumers. This course helps them to have an appreciation for the historical development of film and its impact on culture, as well as showing how they too can create and manipulate images to express themselves and influence others.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915501, 915502

CALPADS: 7243 - Introduction to Film/Video Production

## JAZZ ENSEMBLE 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band course or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on rehearsing and performing quality jazz literature as well as development of the fundamentals of style, rhythm, and basic jazz nomenclature.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915129, 915130

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## JAZZ ENSEMBLE 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in previous band class

This course will provide the students an opportunity for an intensive examination of the process, content and analysis of music through demonstration and performance. Emphasis is placed on performing quality jazz band literature, as well as development of the fundamentals of style and improvisation. Students will perform music from various historical and cultural backgrounds.

The goal of this course is to perform jazz band music at a level, which constitutes successful festival performances, as well as concert performances. Music performed at the upper high school or college level will be required. Students are required to work outside of the classroom, including performance preparation, performances and critiques. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915131, 915132

CALPADS: 7235 - Advanced Professional Music (Capstone)

## MADRIGALS 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** None

This course provides students with the opportunity to apply vocal music skills in performing a varied repertoire of music. They will listen to, read, notate, analyze, and describe music. Students will analyze the role of music in past and present cultures throughout the world, noting cultural diversity as it relates to music, musicians, and composers. Students will evaluate the effectiveness of performances using specific musical criteria. Students will apply what they learn in music across subject areas and to careers. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915209, 915210

CALPADS: 7235 - Advanced Professional Music (Capstone)

## MARCHING BAND 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** None

This course will focus on the performance of marching band literature. This band performs at football games and concerts. Students also participate in various competitions such as parades and field events. Marching skills and routines are emphasized. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915111, 915112

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## MUSIC THEORY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "B" or better in a previous music course or instructor approval

This course is designed for the serious music student. Students in this course will listen to, analyze and describe music terminology. They will learn to read and notate music at an advanced level. Students will compose, arrange and improvise melodies, variations, and accompaniments using digital/electronic technology when appropriate. They will learn to apply these skills to a performance medium such as voice or keyboard. Students will analyze how history effects and influences musical composition and performance styles. Using the elements of music as a guide, students will make critical judgments about musical performances both recorded and live. Students will apply what they have learned in music theory to learning in other art forms, subject areas, and careers.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915139, 915140

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## MUSIC THROUGH THE AGES

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course focuses on listening, responding to, and drawing comparisons between music of the Medieval, Renaissance, Baroque, Classical, Romantic, Modern, and Popular styles, as well as non-European musical traditions. Students will learn how to listen beyond style and draw connections to the common human impulses that generate music (e.g., dance, work, theater, rites of life, etc.). The course will include elements of theory, ear training, music appreciation, and critical listening. Behavioral objectives include development of appreciation of historical and cultural heritage, aesthetic perception, creative expression, and aesthetic valuing.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 905141, 915141, AC5000

CALPADS: 7233 - Introduction to Professional Music

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## MUSICAL THEATRE LABORATORY 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** By audition and/or directing staff approval

This course introduces the theatre student to a specific genre-musical theatre. Students develop all aspects of theatre production as well as singing and dance. Musical theatre combines theatre arts with music and dance. This course may include instrumental musicians and dancers as well as theatre arts students. Performances may involve the collaboration of various teachers including music teachers, choreographers, and theatre teachers on one or several campuses. All aspects of professional performance will be highly stressed: creative expression, aesthetic valuing, cultural and historical awareness, music skills, dance practices, theatre production techniques, theatre technology, lighting, and more.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Performing Arts      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915427, 915428

CALPADS: 7236 - Introduction to Professional Theatre

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## ORCHESTRA 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

The major emphasis of this course is to provide an intensive examination of the process, content and analysis of music through demonstration and performance. Emphasis is placed on performing quality orchestra literature as well as development of the fundamentals of balance, blend, intonation and rhythm.

-To strengthen general performance skills.

-To provide an opportunity to begin work that could lead directly into a major program of study at the University.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Performing Arts      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915142, 915143

CALPADS: 7234 - Intermediate Professional Music (Concentrat

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## PHOTOGRAPHY 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** None

This course is designed for students interested in the art of black and white photography. This course emphasizes the basic procedures of photographic image making, film and print processing, and presentation. Photographic composition, the principles of the camera and film, and the history of photography are also covered. Additionally, this course covers creative uses of the camera and accessories and advanced darkroom techniques. Students are also required to work outside of the scheduled class time. Students will maintain a portfolio containing a series of original photographic artworks.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 905006SS2, 905505SS1, 905506SS1, 915505, 915506, 975505LS, 975506LS

CALPADS: 7211 - Intermediate Graphic Design (Concentrator)

## PHOTOGRAPHY 2A-2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Photography 1A-1B

This is a course primarily in the art of black and white photography. The course offers students advanced study in photographic image making, film and print processing, and presentation. Students refine skills in composition, and learn advanced principles of the camera and film. Critical issues in the history of photography are incorporated into the students' creative projects. The development of individual style and mastery of advanced photographic techniques are stressed.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915507, 915508, 975507LS

CALPADS: 7212 - Advanced Graphic Design (Capstone)

## PHOTOGRAPHY 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Photography 1A-1B and Photography 2A-2B

This course provides further exploration of black and white, color and digital photography. The course offers advanced students independent study in photographic image making, film and print processing, and presentation. Students refine skills in composition and advanced principles of the camera, film, and image making. Students become more selective in the critical issues in the history and ethics of photography, and clarify their individual style and master personal techniques.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915509, 915510

CALPADS: 7211 - Intermediate Graphic Design (Concentrator)

## **SYMPHONIC BAND 1A-1B**

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:** "B" or better in previous band class

This course will provide the students an opportunity for an intensive examination of the process, content and analysis of music through demonstration and performance. Emphasis is placed on performing quality symphonic band literature, as well as development of the fundamentals of balance, blend, and intonation.

The goal of this course is to perform symphonic band music at a level which constitutes successful festival performances, as well as concert performances.

Music equivalent to the Southern California School Band and Orchestra Association class A and AA (upper high school/college level) will be required. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915113, 915114

CALPADS: 7234 - Intermediate Professional Music (Concentrat

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## **SYMPHONIC BAND 2A-2B**

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instrumental lessons, independent study and research.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915115, 915116

CALPADS: 7235 - Advanced Professional Music (Capstone)

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## **SYMPHONIC BAND 3A-3B**

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instrumental lessons, independent study and research. To prepare students for the possibility of college auditions through research and performance.

The course will address the five component strands of the state VPA standards. It will require proficiency beyond the introductory level. Work outside the class will be required (ex. Sectionals, private lessons, rehearsals, etc.).

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915117, 915118

CALPADS: 7234 - Intermediate Professional Music (Concentrat

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## **SYMPHONIC BAND 4A-4B**

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:** "B" or better in previous band class or instructor approval

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature, as well as development of the fundamentals of balance, blend, intonation and rhythm. To strengthen general performance skills. To provide an opportunity to begin work that could lead directly into a major program of study at the University. To participate in the audition process of the "John Philip Sousa Honor Band" or equivalent event. This may include instrumental lessons, independent study and research. To prepare students for the possibility of college auditions through research and performance. To consider the purchase of an instrument to help meet the demands of the mature musician.

This course will address the five component strands of the state VPA standards. It will require proficiency beyond the introductory level. Work outside the class will be required (ex. Sectionals, private lessons, rehearsals, etc.).

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915119, 915120

CALPADS: 7235 - Advanced Professional Music (Capstone)

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## SYMPHONIC WIND 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Attainment of Grade "C" or Better in a previous Introductory Band Course and/or Instructor's Approval via Audition

The major emphasis of this course is to provide an intensive examination of the process, content and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation and rhythm.

\* To strengthen general performance skills.

\* To prepare for and participate in the audition process including private instrumental lessons, independent study and research.

\* To consider the purchase of an instrument to help meet the demands of the mature musician.

This course will address the five component strands of the state VAPA standards. It will require proficiency beyond the introductory level. Work outside the class will be required (ex. personal practice, sectionals, private lessons, rehearsals etc.). Students must agree before registration to a commitment of additional hours outside of class time. Students will perform at various events throughout the year. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915144, 915145

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## SYMPHONIC WIND 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** PREREQUISITE(S): Introductory Band Course and/or Instructor's Approval via Audition Attainment of Grade "C" or better in a previou

The major emphasis of this course is to provide an intensive examination of the process, content and analysis of music through demonstration and performance. Emphasis is placed on performing quality concert band literature as well as development of the fundamentals of balance, blend, intonation and rhythm.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915146, 915147

CALPADS: 7235 - Advanced Professional Music (Capstone)

## TELEVISION PRODUCTION 2A-2B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Instructor approval

This course continues to build on the skills and knowledge learned in Television Production 1A-1B. Advanced students explore the range of technical possibilities in editing. Emphasis is placed on media ethics and production content. Critical thinking skills are developed through analysis of films, commercials, and documentaries.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Production and Managerial Arts      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915515, 915516

CALPADS: 7248 - Advanced Multimedia Sound Production (Capst

## TELEVISION PRODUCTION 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor approval

This course is a continuation of Television Production 2A-2B. In addition to previously covered areas, the student in this course will begin to develop knowledge and skills in lighting, editing and sound mixing. Advanced special effects techniques in the form of animation and use of laser disc programming will also be introduced. Basic Electronic Broadcasting and "Magazine" Format programming will be emphasized. Continued work in storyboarding and camera performance will also be encouraged. Basic promotion and television management techniques will be explored.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Production and Managerial Arts      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915517, 915518

CALPADS: 7247 - Intermediate Multimedia Production (Concent

## TELEVISION PRODUCTION 4A-4B

**Grades:** 12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor approval

This course is a course designed for the continuing dedicated and highly motivated student. Advanced techniques in sound mixing, editing, lighting, and directing will be emphasized. The format of the television programs will be varied to include documentary, instructional, situational (dramatic and comedic), and commercial forms. Students will learn to incorporate mixed media approaches and programming about and for a variety of disciplines. Advanced promotion and television management techniques will be continued.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Production and Managerial Arts      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915519, 915520

CALPADS: 7249 - Advanced Multimedia Film/Video Production (

## THEATRE ARTS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** None

This course is designed to introduce the art of the actor through performance and to provide the student with an orientation to the theatre arts. Through various processes each student will explore sensory-emotional awareness, pantomime, rhythm and movement, improvisation, story development, dramatization, and play making techniques through the use of textbook and script readings; essay and script writings; design acting and lectures. Students will recognize the time and culture captured in theatrical works, as well as the history of cultures of theatre itself. Students will maintain a portfolio that will include artworks, critical analyses, assessments and evaluations, writings and other works.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 905401CR, 905401SS1, 905401SS2, 905402CR, 905402SS1, 905402SS2, 915401, 915402, 975401LS, 975402LS, 995401, 995402

CALPADS: 7237 - Intermediate Professional Theatre (Concentr

## THEATRE ARTS 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Theatre Arts 1A-1B or instructor approval

This course offers the student opportunities and activities to further develop theatre arts skills. The course enriches student proficiency in vocal production and oral interpretation, advanced improvisation techniques, character analysis, character and emotional physicalization, and scripted performances. Students will also concentrate on performance techniques concerning theatre styles/genre, an appreciation of theatre heritage, the performance production process, and theatre technology. In addition, students will be afforded the opportunity to explore play writing and play analysis, including establishing criteria for evaluation of written and performed theatre works. Students will use a variety of techniques for organizing works and for self-evaluation. This is an activity-based class.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915403, 915404

CALPADS: 7238 - Advanced Professional Theatre (Capstone)

### THEATRE ARTS 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Instructor approval

This course offers the student opportunities and activities to further develop theatre arts skills. The course enriches student proficiency in vocal production and oral interpretation, advanced improvisation techniques, character analysis, character and emotional physicalization, and scripted performances. Students will also concentrate on performance techniques concerning theater styles/genre, an appreciation of theatre heritage, the performance production process, and theatre technology. In addition, students will be afforded the opportunity to explore play writing and play analysis, including establishing criteria for evaluation of written and performed theatre works. This is an activity-based class.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Performing Arts      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915405, 915406

CALPADS: 7237 - Intermediate Professional Theatre (Concentr

### THEATRE ARTS 4A-4B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Instructor approval

This course is intended for the highly motivated and advanced theatre student. The course offers students opportunities to refine areas of special interest in the theatre arts. Possible activities encompass such areas as performance skills, theatre design and application, play writing, directing and career opportunities. Students will develop an understanding of and appreciation for theatre as a viable form of communication.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Performing Arts      COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915407, 915408

CALPADS: 7238 - Advanced Professional Theatre (Capstone)

### THEATRE PRODUCTION 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Grades Offered: 9 Instructor approval

This course introduces the student to all phases of theatre production in an activity/workshop class setting. This course offers the serious theatre arts student an opportunity to explore and apply all phases of the production process. Practical performance skills will be emphasized: theatre of varied cultures, historical theatre literature, audition practices, theatre management, rehearsal techniques, aesthetic perception, and survey technical crafts. This course is designed to meet the needs of highly motivated theatre students.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Performing Arts      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915417, 915418

CALPADS: 7237 - Intermediate Professional Theatre (Concentr

## THEATRE PRODUCTION 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Theatre Production 1A-1B and instructor approval

This course expands knowledge in all phases of theatre production in an activity/workshop class setting. This course offers the serious theatre arts student an opportunity to further apply all phases of the production process. Theatre theory in areas including acting, movement, directing, design, production, expression, improvisation, aesthetic appreciation, and criticism will be addressed. Practical performance skills will be expanded: theatre of varied cultures, historical theatre literature, audition practices, theatre management, rehearsal techniques, aesthetic perception, and applied technical crafts. This course is designed to meet the needs of highly motivated theatre students.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915419, 915420

CALPADS: 7238 - Advanced Professional Theatre (Capstone)

## THEATRE PRODUCTION 3A-3B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Instructor approval

This course is a continuation of Theatre Production 2A-2B.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915421, 915422

CALPADS: 7237 - Intermediate Professional Theatre (Concentr

## THEATRE PRODUCTION 4A-4B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Instructor approval

This course is a continuation of Theatre Production 3A-3B.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Performing Arts

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915423, 915424

CALPADS: 7238 - Advanced Professional Theatre (Capstone)



## THEATRE TECHNOLOGY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Instructor approval

This course offers the student opportunities to acquire and apply knowledge and skills in a variety of areas in theatre technology: theatre architecture, scenic design, construction, lighting, sound engineering, make-up and costume techniques, theatre management, and publicity design. Students will be introduced to major historical periods and cultural differences in architecture and clothing design to ensure period-correct productions. Students will also be exposed to creative expression through light and set design and will develop an aesthetic appreciation of good theatre technology applications.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment  
1

PATHWAY: Production and Managerial Arts

COURSE SEQ: Year

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915409, 915410

CALPADS: 7241 - Intermediate Stage Technology (Concentrator)

## THEATRE TECHNOLOGY 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Theatre Technology 1A-1B or instructor approval

This course offers the student an opportunity to continue to develop and apply knowledge and skills in a variety of areas in theatre technology: theatre architecture, scenic design, construction, lighting, sound engineering, make-up and costume techniques, theatre management, and publicity design. Students will explore major historical periods and cultural differences in architecture and clothing design to ensure period-correct productions. Students will develop creative expression through light and set design. Aesthetic valuing and perceptions will mature with experience and repeated applications.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment  
2

PATHWAY: Production and Managerial Arts

COURSE SEQ: Year

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915411, 915412

CALPADS: 7242 - Advanced Stage Technology (Capstone)

## THEATRE TECHNOLOGY 3A-3B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Theatre Technology 2A-2B

This course is a continuation of Theatre Technology 2A-2B.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment  
3

PATHWAY: Production and Managerial Arts

COURSE SEQ: Year

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915413, 915414

CALPADS: 7241 - Intermediate Stage Technology (Concentrator)

## THEATRE TECHNOLOGY 4A-4B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Theatre Technology 3A-3B

This course is a continuation of Theatre Technology 3A-3B.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Production and Managerial Arts      COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915415, 915416

CALPADS: 7242 - Advanced Stage Technology (Capstone)

## TREBLE CHOIR 1A-1B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Instructor approval

This course is designed for treble voices. Students will study a wide variety of two- and three-part music. In addition, students will learn note reading and vocal technique, varieties in style and interpretation, and performance skills. Some concert performances will be included. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915207, 915207F, 915207U, 915208, 915208F, 915208U

CALPADS: 7234 - Intermediate Professional Music (Concentrat

## TV/VIDEO DIGITAL MEDIA PRODUCTION 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:**

This course is designed to allow students the opportunity to learn and explore the industry of television production and video camera usage. The program focuses on basis knowledge and competencies of video productions. The program will have various lab activities and culminating activities that will link their experiences to a real life experience.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 919318X, 919319X

CALPADS: 7212 - Advanced Graphic Design (Capstone)

## VIDEO PRODUCTION 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** "C" or better in Introduction to Media Production or Photography 1A or instructor approval

This course introduces the student to basic video production techniques, concepts and skills. The primary focus of this course will be to develop camera skills and familiarity with fundamental compositional structures resulting in an ability to manipulate video space and time and create realistic effects for the viewer. In-camera editing will be required. Basic lighting and audio techniques as well as theatrics will be introduced. The importance of organizational skills and life-skills in creating successful video will be stressed. The students will be exposed to the history of the video media, discuss its role and responsibilities, and debate issues related to video and the media. Students will also explore career opportunities.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment  
1

PATHWAY: Production and Managerial Arts

COURSE SEQ: Year

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915511, 915512

CALPADS: 7247 - Intermediate Multimedia Production (Concent

## VISUAL ARTS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** None

This course emphasizes the necessary skills to provide the student with a foundation leading to understanding artistic perception, creative expression, historical and cultural context(s); aesthetic valuing and connections, relations, applications of the visual arts. Students learn the tools, techniques, materials, technology and application of a variety of art forms, and apply their knowledge to other disciplines and careers. The art elements and principles of design serve as a foundation for each unit covered. Selected historical or cultural contexts will be applied with attention to analysis, interpretation, and judgment of student work, as well as appreciation of art works from other cultures and times. Students will maintain a portfolio that will include a journal, sketches, and other pertinent works of art.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 905000SS1, 905000SS2, 905001SS1, 905002SS1, 905002SS2, 915001, 915001DI, 915001II, 915002, 915002DI, 915002II, 975001LS, 975002LS

CALPADS: 7217 - Intermediate Visual/Commercial Art (Concent

## VISUAL ARTS 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:** "C" or better in Visual Arts 1A-1B or instructor approval

This course is designed for students interested in increasing skills and understanding art techniques and media. Necessary skills will be emphasized to provide the student with a perceptual base leading to understanding artistic perception, creative expression, historical and cultural context(s); aesthetic valuing and connections, relations, and applications of the visual arts. Design, painting, drawing, graphic arts, sculpture, and art appreciation will be among areas of study. Projects will be assigned to encourage a higher level of individual creativity and craftsmanship. The art elements and principles of design serve as a foundation for each unit covered. Selected historical or cultural contexts will be applied with attention to analysis, interpretation, and judgment of student work, as well as appreciation of art work from other cultures and times. Students will maintain a portfolio that will include a journal, sketches, and other pertinent works of art.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915003, 915004, 975003LS, 975004LS

CALPADS: 7218 - Advanced Visual/Commercial Art (Capstone)

## **Building and Construction Trades Department**

### **3D WOOD DESIGN/SCUPLTURE 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course introduces the wood medium, it's qualities and potential. Students will gain an understanding of the art elements and principles of design, which will serve as a foundation for each unit of instruction.

After the safe use of tools and basic techniques are mastered, students will utilize their own creative potential as they use wood as the art medium of choice. Students will develop aesthetic perceptions by using critical thinking skills, such as observation, discrimination, comparison, contrast, and imagination. Contemporary statements will be made through an understanding of the historical importance wood has played in past cultures. Students will maintain a portfolio that will include a journal, sketches, and photographs of completed works of art.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 918591, 918592

CALPADS: 7311 - Intermediate Cabinetry, Millwork, and Woodw

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### **ADVANCED CABINETRY DESIGN 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** INTRODUCTION TO WOODWORKING FURNITURE DESIGN AND CONSTRUCTION

In this course students will learn about planning, designing, constructing, and finishing cabinetry. Students will also study the area of mass production and cabinet construction on a production line. This course is a hands-on lab and students are expected to complete cabinets and other cabinetry-type projects.

**CTE:**  
INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Cabinetry, Millwork, and Woodworking      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918595, 918596

CALPADS: 7311 - Intermediate Cabinetry, Millwork, and Woodw

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### ADVANCED ELECTRONICS 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Electronics/Digital 2A-2B with a grade of "C" or better

This course is designed to cover power supplies, filters, opto-electronics, and amplifiers as they apply to electronic consumer goods. The student will design and build a power supply. The student will also study Op amps and construct a fiber optic communication system. An opportunity will be provided for the student to design and fabricate electronic circuits.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Mechanical Systems Installation and Repair      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918605, 918606

CALPADS: 7331 - Intermediate Mechanical Systems Installatio

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### CONSTRUCTION TECHNOLOGY 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

This course introduces the students to the construction industry. A major part of the training time will be spent in practical application of the theory by doing actual construction jobs. Framing, room layout, drywall, door and window installation, plumbing, electrical, and blueprint reading are some of the activities. Program may include building a home in a local residential area.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Res/Comm Const      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919400OCV, 919400X, 919401OCV, 919401X

CALPADS: 7341 - Intermediate Residential and Commercial Con

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### CONSTRUCTION TECHNOLOGY 2A-2B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** CONSTRUCTION TECHNOLOGY 1A-1B

This course prepares the student with entry-level skills in the construction industry. A major part of the training time will be spent in practical application of the theory by doing actual construction jobs. Framing, room layout, drywall, door and window installation, plumbing, electrical, and blueprint reading are some of the activities. Program may include building a home in a local residential area.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Res/Comm Const      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919402OCV, 919402X, 919403OCV, 919403X

CALPADS: 7342 - Advanced Residential and Commercial Constru

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## ELECTRONIC MICROPROCESSOR TECHNOLOGY

### 4A-4B

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Advanced Electronics 3A-3B with a grade of "C" or better

This course is designed to build a foundation in microprocessor technology. Microprocessors are found in many different types of electronic systems, from the automobile to the microcomputer. This course will introduce the students to microprocessor architecture (how it works), microprocessor programming and interfacing. The microprocessor programming is in both machine and assembly language, through this language the microprocessor talks to itself and in the language companies prefer their technicians to know. The interfacing section will introduce the students to various control applications to microprocessors.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Mechanical Systems Installation and Repair  
COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918607, 918608

CALPADS: 7332 - Advanced Mechanical Systems Installation an

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## ELECTRONICS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** None

This course is designed for the student who has no knowledge of electronics. This is both a "What" is electronics and "How To Do It" program. The student will be introduced to sources of electricity and practical applications of electricity and electronics. The student will learn the concepts and applications of DC Electronics and Semi-Conductors. This is a "hands-on" program in which the student will learn by doing. This hands-on approach also teaches practical applications of Mathematics, English, and Physical Sciences.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Mechanical Systems Installation and Repair  
COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918601, 918602

CALPADS: 7331 - Intermediate Mechanical Systems Installatio

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## ELECTRONICS/DIGITAL 2A-2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Electronics 1A-1B with a grade of "C" or better

This course is an in-depth study of digital circuitry. The student will be exposed to the components used in digital circuitry, safety in the use of electricity, and specialized test equipment. The student will execute test measurements on student constructed circuits while investigating the various digital circuits, and troubleshoot digital systems to the individual chip level. An opportunity will be provided for the student to design and fabricate an electronic circuit.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Mechanical Systems Installation and Repair      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918603, 918604

CALPADS: 7332 - Advanced Mechanical Systems Installation an

## FURNITURE DESIGN HISTORY & CONSTRUCTION 1A-1B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Industrial Wood 1A-1B

This course is a technical and aesthetic exploration of three-dimensional design through the media of wood, metal, glass, plastic and casting resins, with an emphasis on the artistic expressive possibilities of furniture. Included in the course will be design skills, drawing and planning skills, and advanced woodworking skills. Students will analyze the sculptural and architectural nature of furniture design and explore the elements of the contemporary art furniture movement. Students will also create their own interpretations of traditional and contemporary furniture concepts, which may serve as functional pieces and/or works of fine art.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Cabinetry, Millwork, and Woodworking      COURSE SEQ: Year 2

**Articulated Course:** Y

**Grad Req:** Fine Arts

**Course Codes:** 918593, 918594

CALPADS: 7312 - Advanced Cabinetry, Millwork, and Woodworki

## INDUSTRIAL WOOD 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Completion of Industrial Wood 2A-2B or instructor approval

This course provides the students with theoretical and practical experiences in methods of cabinet construction used in modern industry. Students will complete an in-depth study of furniture and cabinet design. Each student will design and construct a learning product.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades      PATHWAY: Cabinetry, Millwork, and Woodworking      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918585, 918586

CALPADS: 7311 - Intermediate Cabinetry, Millwork, and Woodw



## INTRODUCTION TO WOODWORKING 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** None

This course emphasizes the application and safe use of hand and machine tools in the construction of student built learning products, the theory and use of fundamental surface preparation and simple wood finishes.

**CTE:**

INDUSTRY SECTOR: Building and Construction Trades

PATHWAY: Cabinetry, Millwork, and Woodworking

COURSE

SEQ: Year 1

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918581, 918582

CALPADS: 7311 - Intermediate Cabinetry, Millwork, and Woodw

## **Business and Finance Department**

### **ADVANCED MICROSOFT WORD**

**Grades:** 10-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** Introduction to Word

This course is designed for those individuals who have a reasonably extensive experience of using Microsoft Word and would like to build on their skills with a deeper understanding of features and techniques including but not limited to the processes of sharing, managing, designing, and customizing Word documents and features. This is an advanced course so all students entering the course will be familiar with the Office ribbon and understand basic Word features.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918041

CALPADS: 7412 - Advanced Business Mgmt Enterprise & Project

### **APPLIED ACCOUNTING 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** Computerized Accounting 1A/1B required for the Small Business Accounting Certificate (Norco College)

This course is an introduction to accounting principles related to small business operations for both merchandising & service oriented enterprises. The emphasis is on the development of skills to record business transactions for cash & accrual methods, in addition to the process of preparing financial statements & completing the accounting cycle. Students will perform tasks related to special journals, subsidiary ledgers, & payroll & banking procedures. Completion of this course & Computerized Accounting 1A/1B, with a 'B' grade or higher, will give students the opportunity to earn the Small Business Accounting Certificate & college credits, through an articulation agreement with Norco College.

**CTE:**

INDUSTRY SECTOR: Business and Finance      PATHWAY: None      COURSE SEQ: None

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918028, 918029

CALPADS: 7420 - Intermediate Financial Services and Banking

**BUSINESS LAW 1A-1B****Grades:** 10-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** G**Prerequisite:** None, 1B requires "C" or better in Business Law 1A

So you want to be a lawyer! Well, you don't have to be a lawyer, or a perspective law student in college to take this class. Have you considered your rights and why we have laws? Do you plan to rent an apartment, buy a car or get married some day? Do you like a class where you can discuss topics and voice your opinions? Do you like to work in groups, give presentations and have guest speakers visit to enhance your knowledge of real life events? Then enroll in Business Law! This course uses computer technology and introduces the topics of business and personal law. As students become familiar with these underlying concepts of law they will gain a better understanding of the importance of the law in general. They will become knowledgeable about specific laws that are likely to be relevant to them in every day life. This foundation will include ethics, problems in society, criminal law, civil law, and procedural law. Students will learn about liability issues, our court system and trial procedures. With this background, students are then ready to consider entering into contracts, which provides basic rules that we can all use to define our private rights and duties. During the second semester students will continue to enhance their skills with law related subjects as they gain knowledge with actual case studies. Students will obtain supplementary skills in contracts, warranties, consumer protection, and writing checks! Students will also learn about different types of businesses, such as proprietorships, partnerships, and corporations. Knowing the law is powerful and rewarding!

**CTE:**INDUSTRY SECTOR: NonePATHWAY: NoneCOURSE SEQ: None**Articulated Course:** Y**Grad Req:** Business**Course Codes:** 918005, 918006

CALPADS: 7420 - Intermediate Financial Services and Banking

**BUSINESS MANAGEMENT & LEADERSHIP 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** G**Prerequisite:**

This course provides business management concepts and principles in a realistic, investigative, and enriching manner. All the functions of business management are covered extensively, including the use of technology and communication as tools of business. This course is designed to make students aware of the concepts and skills required for success in today's marketplace. This course provides a wealth of practical applications that will connect you to the business world. Extensive coverage of finance, marketing, production, and management allows you to explore foundations of business operations while topics such as ethics, economics, career planning, and technology take you beyond the basics. Activities encourage career and college planning; prepare students for post-secondary Business courses and successful participation in the Future Business Leaders of America's competitive events and projects. Team building and project management is integrated throughout, as well as current events and accountability.

**CTE:**INDUSTRY SECTOR: Business and FinancePATHWAY: Business ManagementCOURSE SEQ: Year 2**Articulated Course:** Y**Grad Req:** Business**Course Codes:** 918044, 918045

CALPADS: 7412 - Advanced Business Mgmt Enterprise &amp; Project

## CAREER CHOICES-BUSINESS

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** None

Take an interest in your future. Through the use of many resources, including the Internet, students will learn the following: opportunities available at the high school level; curriculum planning, athletics, and activities; to be able to explore the University they plan on attending; and identify the career path that interests them most. Through these lessons students will cover many business standards including but not limited to time-management, study skills, effective communication skills, conflict resolution skills, creating a personal budget, how to use a computer and its applications correctly, and how to give an effective presentation. Students will learn broad-based business skills that will facilitate the combination of academics and technical knowledge. Language arts skills will be used in a co-curricular format to allow students to develop oral and written business communication skills. Students will use critical thinking, decision making and problem solving skills that are needed for the fast paced and high performance needs in the workplace. Students will also learn how to gain employment through the effective use of resumes, applications, letters, interviewing skills, and business etiquette. Upon completing the class students will have completed a personal portfolio that will guide them with their future and assist them in being effective life long learners.

**CTE:**

INDUSTRY SECTOR: Business and Finance    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 908019, 908019CR, 908019S, 918019, 918019S, 958019S, 968019, 968019S, 998019, AC9004, AC9005

CALPADS: 7400 - Introduction to Business and Finance

## COMPUTER APPLICATIONS

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** Introduction to Computers

Are you going into a business field? Computer skills can improve your chances! Whether you are going to college or entering the work force, you will need a thorough command of computer technology skills. With this course you will enhance your computer skills by continuing to learn the most important applications for microcomputers including word processing, spreadsheets, database management systems, presentation graphics and desktop publishing. Enroll in this course and be a skilled applications software user when you start college or launch your career.

**CTE:**

INDUSTRY SECTOR: Business and Finance, Information and Communication Technologies    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Business

**Course Codes:** 918012, 918012S

CALPADS: 7410 - Intermediate Business Mgmt Communication Te

## COMPUTERIZED ACCOUNTING 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Accounting1/Applied Accounting 1A/1B required for the Small Business Accounting Certificate (Norco College)

This course is an introduction to computerized accounting, integrating the principles of accounting to an automated computerized system in use by many companies, & accounting professionals. The course will introduce students to QuickBooks accounting software & will focus on competency with the software, & the accounting principles on which it is based. Students will perform tasks, such as using accounting software to calculate accounting formulas, analyze & solve problems, & apply accounting principles used in manual accounting systems to computerized accounting systems. Students will have the opportunity to earn QuickBooks certification by successfully completing the certification exam at the end of the course. Completion of this course & Accounting 1/Applied Accounting 1A/1B, with a 'B' grade or higher, will give students the opportunity to earn the Small Business Accounting Certificate, & college credits, through an articulation agreement with Norco College.

**CTE:**

INDUSTRY SECTOR: Business and Finance

PATHWAY: None

COURSE SEQ: None

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918035, 918036

CALPADS: 7422 - Advanced Financial Services Business Accoun

## INTERNSHIP 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** None

Instructor approval required. This course will provide a basis for career preparation for 11th and 12th grade students by enabling them to acquire a firsthand knowledge of business. Students are given an opportunity to intern at a business site in the community or on campus to learn the various skills that will make them employable as long as they have a recommended cumulative GPA of 2.0 or higher and do not have an excess of absences/tardies. A maximum of 10 units may be earned over a 1 year period (5 units variable credit per semester). The students will be required to attend class once per week for 1 hour. An outcome of this course is that students will seek (1) a letter of recommendation; (2) a job referral; and/or (3) an internship at the firm. While interning, students may gain valuable work experience and will be able to make the connection between career/business and education while gaining work skills that will make them more employable. Students will also be encouraged to explore career pathway possibilities. The Internship Program Curriculum will be guided by the state standards for Career Technical Education as well as by the Expected School-Wide Learning Results developed by the Corona-Norco Unified School District Staff.

Students may not be concurrently enrolled in Work Experience and the Internship class.

**CTE:**

INDUSTRY SECTOR: Business and Finance

PATHWAY: Business Management

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Business

**Course Codes:** 918020, 918021

CALPADS: 7410 - Intermediate Business Mgmt Communication  
Te

## INTERNSHIP 2A-2B

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** None

Instructor approval required. This course will provide a basis for career preparation for 12th grade students by enabling them to acquire a firsthand knowledge of business. Students are given an opportunity to intern at a business site in the community or on campus to learn the various skills that will make them employable as long as they have a recommended cumulative GPA of 2.0 or higher and do not have an excess of absences/tardies. A maximum of 10 units may be earned over a 1 year period (5 units variable credit per semester). The students will be required to attend class once per week for 1 hour. An outcome of this course is that students will seek (1) a letter of recommendation; (2) a job referral; and/or (3) an internship at the firm. While interning, students may gain valuable work experience and will be able to make the connection between career/business and education while gaining work skills that will make them more employable. Students will also be encouraged to explore career pathway possibilities. The Internship Program Curriculum will be guided by the state standards for Career Technical Education as well as by the Expected School-Wide Learning Results developed by the Corona-Norco Unified School District Staff. Students may not be concurrently enrolled in Work Experience and the Internship class.

**CTE:**

INDUSTRY SECTOR: Business and Finance

PATHWAY: Business Management

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Business

**Course Codes:** 918022, 918023

CALPADS: 7412 - Advanced Business Mgmt Enterprise & Project

## INTRODUCTION TO BUSINESS 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** Technology Applications

Whether you want to train for a career or simply learn new skills to stay competitive in today's job market office procedure skills can help. If you have ever wondered what it is like to work in a business office or thought about office management and organizational opportunities then you should enroll in this course. Students will obtain developmental skills in telephone techniques, business etiquette, filing and retrieving documents; managing all aspects of correspondence and petty cash control. Students will also learn the importance of teamwork and how to complete electronic functions including calculations. Students will also gain technology application skills with word processing, spreadsheets, presentations and desktop publishing software.

**CTE:**

INDUSTRY SECTOR: Business and Finance

PATHWAY: Business Management

COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918007, 918008

CALPADS: 7412 - Advanced Business Mgmt Enterprise & Project

## INTRODUCTION TO COMPUTERS

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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### Prerequisite:

Are you going to college or entering the workforce? Can you type at least 25 words per minute? Do you know how to format reports, set up spreadsheets, create databases, and prepare presentations? This introductory course will teach you all that and more, including the Internet, World Wide Web, desktop publishing, software piracy and hardware components so you are knowledgeable when you shop for a computer! Explore the trends and new innovations in the computer technology industry. Utilize the computer and gain the technology skills to meet your educational needs. Prepare yourself for the future through a working knowledge of the personal computer.

### CTE:

INDUSTRY SECTOR: Business and Finance, Information and Communication Technologies    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Business

**Course Codes:** 918011, 918011S

CALPADS: 7400 - Introduction to Business and Finance

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## INTRODUCTION TO EXCEL

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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### Prerequisite:

In today's fast-paced, technical business environment, numbers are everything. Much of our success hinges on how well we can manage the data - statistics, planning, reporting - that we encounter on a daily basis. We learn how we are doing and discover our next course of action by studying numbers. An incredibly powerful tool for doing this is Microsoft Excel. Microsoft Excel is the standard spreadsheet application for both the business world and personal use. In this Introduction to Microsoft Excel course, students will create and edit worksheets and workbooks. This course is designed for students who want to gain the necessary skills to create, edit, format, and print basic Microsoft Excel worksheets.

### CTE:

INDUSTRY SECTOR: Business and Finance    PATHWAY: Business Management    COURSE SEQ: Year 1

### Articulated Course: Y

**Grad Req:** Business

**Course Codes:** 918043

CALPADS: 7412 - Advanced Business Mgmt Enterprise & Project

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## INTRODUCTION TO POWERPOINT

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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### Prerequisite:

An introduction to Microsoft PowerPoint presentation graphics program. What is PowerPoint? PowerPoint helps you create, edit, and manipulate professional-looking slides that you can use to facilitate meetings, supplement classroom learning, and share information using a wide variety of media including graphics, pictures, and audio and video clips. Creating a slide show may seem like an overwhelming task, but PowerPoint provides many features that make that task easy and fun. A good presentation holds your audience's attention without distracting them from understanding the information you are presenting. PowerPoint allows you to use color, design, sound and video to illustrate your points effectively. These options can all be used to emphasize your points and clarify your information.

### CTE:

INDUSTRY SECTOR: Business and Finance

PATHWAY: Business Management

COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918042

CALPADS: 7410 - Intermediate Business Mgmt Communication  
Te

## INTRODUCTION TO WORD

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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### Prerequisite:

This course is designed to introduce word processing skills using Microsoft Word to create business documents. What is Word? Word is a powerful, full-featured word-processing application. You can use Word to create reports, tables, letters, memos, Web pages, and much more. The Word features enable you to prepare documents efficiently. Word provides many features that give you the ability to improve and enhance your documents. Editing and formatting features gives you the ability to refine your documents and determine how they will look on the screen, on the Web, or as printed pages. Word provides a number of features, including pictures, drawing tools, data elements, templates, and styles, which will all help you to create an attractive document.

### CTE:

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918040

CALPADS: 7410 - Intermediate Business Mgmt Communication  
Te



## KEYBOARDING

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

Touch keyboarding will save you time and money with your educational and career goals. This course will teach touch keyboarding using Microsoft Word and associated learning software. Today's society requires knowledge of the personal computer, regardless of your career path. Therefore, the goal of this course is to provide you with basic terminology and touch type to develop a speed of 25 words per minute or more. This course will assist students to learn the proper ergonomic procedures, how to format reports, enumerate lists, produce formal e-mails, set up tables, complete outlines and business letters. Students will also review and improve language skills.

**CTE:**

INDUSTRY SECTOR: Business and Finance      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Business

**Course Codes:** 918010, 918010S

CALPADS: 7400 - Introduction to Business and Finance

## MONEY MANAGEMENT 1A-1B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

Do you want to learn how to effectively manage your business and personal finances? This course is designed to make students aware of the financial challenges confronting them in daily living. Included will be such topics as how to make intelligent decisions in spending and saving; how to maintain good financial records; how to avoid financial disasters that result from the unwise use of credit and credit cards; information about banking services, insurance choices, and investment choices; and how to prepare income tax forms.

**CTE:**

INDUSTRY SECTOR: Business and Finance      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Business

**Course Codes:** 908009, 918009, 918009S, AC9002, AC9003

CALPADS: 7410 - Intermediate Business Mgmt Communication  
Te

## TECHNOLOGY APPLICATIONS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

### Prerequisite:

This course has a primary goal of focusing on real-world course material that will enable students to prepare for becoming a Computing Technology Industry Association A+ (COMPTIA A+) Certified Technician and Microsoft Certified Applications Specialist (MCAS). This coursework allows students to understand the parts and applications of a basic computer. Students will work on PC hardware, configure general PC operating system software, understand cabling networks, and develop end user office support. Students will to perform tasks, such as computer hardware installation, configuration, diagnosing, preventive maintenance and basic networking. Plus, this course will enable students to learn and use Microsoft Office productivity tools to produce professional documents, create spreadsheets, build effective presentations, create and manage databases, and manage time and information. This course will not only prepare the students for the MCAS certification tests (Word/Excel/PowerPoint/Access/Outlook), but also prepare them for the COMPTIA A+ certification exams.

### CTE:

INDUSTRY SECTOR: Business and Finance

PATHWAY: Business Management

COURSE SEQ: Year 1

### Articulated Course:

**Grad Req:** Business

**Course Codes:** 918015, 918016

CALPADS: 7410 - Intermediate Business Mgmt Communication  
Te

## TECHNOLOGY APPLICATIONS 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Technology Applications 1A-1B

The course has a primary goal of focusing on real-world course material that will enable students to prepare for becoming a Computing Technology Industry Association A+ (COMPTIA A+) Certified Technician and Microsoft Office Specialist (MOS) and Microsoft Office Master (Excel and Access). This coursework allows students to understand the parts and applications of a basic computer. Students will work on PC hardware, configure general PC operating system software, understand cabling networks, and develop end user office support. Students will perform tasks, such as computer hardware installation, configuration, diagnosing, preventive maintenance and basic networking. Plus, this course will enable students to learn and use Microsoft Office productivity tools to produce professional documents, create spreadsheets, build effective presentations, create and manage databases, and manage time and information. This course will not only prepare the students for the MOS certification tests (Excel/Access), but also prepare them for the COMPTIA A+ certification exams. Students taking this course also have the freedom to choose additional professional certification tests including but not limited to Microsoft Certified Information Technology Professional (Windows 7, Windows Server 2008, SQL Server, Exchange Server), and Cisco Certified Network Administrator (CCNA).

### CTE:

INDUSTRY SECTOR: Business and Finance

PATHWAY: Business Management

COURSE SEQ: Year 2

### Articulated Course:

**Grad Req:** Business

**Course Codes:** 918024, 918025

CALPADS: 7411 - Intermediate Business Mgmt Technologies (Co

**TECHNOLOGY APPLICATIONS 3A-3B**

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:**

**CTE:**

INDUSTRY SECTOR: Business and Finance

PATHWAY: Business Management

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Business

**Course Codes:** 918026, 918027

CALPADS: 7410 - Intermediate Business Mgmt Communication  
Te

## **Career Technical Education (CTE)/ROP Department**

### **RETAIL MERCHANDISING & PRINCIPLES OF MARKETING**

**Grades:**                      **Duration:** Year                      **Credits:** 10 Credits                      **UC/CSU:** G

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#### **Prerequisite:**

This standards-aligned course covers Retail Merchandising and Principles & Marketing. Retail Merchandising position of this course curriculum prepares students to master marketing and sales foundations and apply these principles to the characteristics of various types of retail environments; and provides opportunities to perform marketing practices and tasks in a variety of on-site, student enterprises, such as a student store, internships and the practices of group activities in class. The course curriculum community classroom component is designed for on-campus student enterprise operations, facilitating student skill development in a variety of retail operational areas, including analyze products, consumers, marketing research, target marketing and global perspective, cashiering, cash handling, sales events and promotion, inventory control, and strategic market planning. This is an advanced course; that is designed to examine marketing as it is related to society and economic development. (90 hours) Principles & Marketing position of this class examines the role of marketing as it relates to society and economic development. The course will analyze products, consumer, marketing research and strategic market planning. The course will survey with a global perspective, the selection of target markets as well as the development of the marketing mix – place, product, price, and promotion. This class gives students the skills to attend and continue at a University level with the goal of attaining a business degree - Master Business Administration (MBA). (90 hours)

#### **CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

#### **Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919385X, 919386X

CALPADS: 8320 - Intermediate Professional Sales (Concentrat

## **Education, Child Development and Family Services Department**

### **CHILD CARE LAB 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Must be a teen parent or a prospective teen parent; must have parent/guardian and administrative approval; and submit proof of negative TB skin test

This course provides students practical learning experiences in the care and development of infants in a lab setting. Hands-on learning activities will be provided which will enable the students to become more competent and confident as parents. Additional instruction focuses on the social, emotional, physical, and cognitive development needs of the child. This course may be repeated for duplicate credit.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 919119, 919120

CALPADS: 7510 - Intermediate Child Development (Concentrato

### **CHILD CARE OCCUPATIONS**

**Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course prepares students for employment as pre-school teacher aides, child care aides or recreation leaders. Students will learn how to work with preschool and elementary school-age children and utilize principles of child growth and development, positive discipline, and management techniques; also included: child care laws and regulations, nutrition, safety and age-appropriate lesson planning. Prior to placement at a worksite for training the student must have TB clearance, complete CPR training, and be fingerprinted if over 18 years of age. Work site training is a requirement of this course; students will plan and present learning activities for children at local child care facilities or public schools. This certificate also meets the requirements for entry employment as a preschool teacher in private programs; after becoming employed, additional course work must be completed. This course also qualifies for credit with some local community colleges.

**CTE:**  
INDUSTRY SECTOR: Education, Child Development, and Family Services      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919415OCV, 919415OCY

CALPADS: 7530 - Intermediate Education (Concentrator)

## TEEN PARENTING 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Teen Parenting 1A-1B or instructor approval; must have parent/guardian and administrative approval; and submit proof of negative TB skin test

This course includes the study of the following areas: adoption as an option; three generation living; relationships; parenting roles; childhood illnesses; family planning; choosing caregivers; and community resources. Identification of different forms of abuse, prevention, and intervention will be emphasized.

**CTE:**

INDUSTRY SECTOR: Education, Child Development, and Family Services

PATHWAY: Child Development

COURSE

SEQ: Year 2

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 919125, 919126

CALPADS: 7511 - Advanced Child Development (Capstone)

## CHILD DEVELOPMENT 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Signed parent permission

This course is a study of the physical, emotional, social, and intellectual development of the child from birth to age six. Units of instruction include: pregnancy, prenatal care and responsibilities of parenthood. Students will observe children at different stages of development.

**CTE:**

INDUSTRY SECTOR: Education, Child Development, and Family Services      PATHWAY: Child Development      COURSE  
SEQ: Year 1

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 909121CR, 909122CR, 919121, 919122, 999121, 999122

CALPADS: 7510 - Intermediate Child Development (Concentrato

## TEEN PARENTING 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Must be a teen parent or a prospective teen parent; must have parent/guardian and administrative approval; and submit proof of negative TB skin test

This course provides the perspective teen parent with information and skills that will help them adjust to their situation and make wise choices concerning their pregnancy. The course will include: instruction on heredity; environment; prenatal development; prenatal health hazards; prenatal care; preparation for childbirth; labor; birth; and the needs of the mother and newborn infant. The essential learnings in each of these areas will help the student become more confident and prepared thereby benefiting both the parent and the developing fetus.

**CTE:**

INDUSTRY SECTOR: Education, Child Development, and Family Services      PATHWAY: Child Development      COURSE  
SEQ: Year 1

**Articulated Course:**

**Grad Req:** Electives, Family and Consumer Science

**Course Codes:** 909123, 909123CR, 909124, 909124CR, 919123, 919124, 999123, 999124

CALPADS: 7510 - Intermediate Child Development (Concentrato

## **Electives Department**

### **AP RESEARCH 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, or issue of individual interest. Students design, plan, and conduct a year-long research-based investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 939202, 939203

CALPADS: 2826 - AP Research

### **AP SEMINAR 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

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

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 939200, 939201

CALPADS: 2825 - AP Seminar



## **Engineering and Architecture Department**

### **ARCHITECTURAL DESIGN 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Architectural Drawing 1A-1B/ Computer-Aided Drafting (CAD) 1A-1B with a passing grade of "C" or better

This is a year course for students who have successfully completed Architectural Drawing 1A (a one-semester manual architectural drawing course) and Computer-Aided Drawing 1A/1B (a one year CAD course) with a grade of "C" or better. The student will be introduced to architectural design principles including line, forms, values of lines, textures, volume, space, and various art forms to develop interior and exterior living areas. The student will use details and design criteria specific to particular styles of architecture to create homes to specific programs. The student will design several homes (using an Architectural CAD software as a tool) using the above principles. The student will use architectural animation software to create presentations and walk-through animations of their structure.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture      PATHWAY: Architectural Design      COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Fine Arts

**Course Codes:** 918541, 918542

CALPADS: 7710 - Intermediate Architectural Design (Concentr

### **ARCHITECTURAL DESIGN 2A-2B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Architectural Design 1A-1B

This is a year course for students who have successfully completed Architectural Design 1A-1B. The student will apply skills learned (in Architectural Design 1A-1B) to architectural design problems that incorporate: line, forms, values of lines, textures, volume, space, and various art forms to develop interior and exterior living areas. The student will use details and design criteria specific to particular styles of architecture to create homes to specific programs. The student will design several homes utilizing current industry practices of sketching, rendering and massing using the above principles. The student will use current Building Information Modeling (BIM) software to create historically correct detail drawings of their structure.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture      PATHWAY: Architectural Design      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 918543, 918544

CALPADS: 7711 - Advanced Architectural Design (Capstone)

### ARCHITECTURAL DRAWING 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in Industrial Drafting 1A-1B

This course will develop the students understanding of architectural floor plans and foundation designs. Students will draw plans for a wood frame house using principles of the uniform building code and standard architectural practices.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918533, 918534

CALPADS: 7710 - Intermediate Architectural Design (Concentr

### ARCHITECTURAL DRAWING 2A-2B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Architectural Drawing 1B

This course is an advanced program in architectural multi-level design. It includes rendering techniques for floor plans, plot plans, elevations, and perspectives.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918535, 918536

CALPADS: 7711 - Advanced Architectural Design (Capstone)

### ARCHITECTURAL DRAWING 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Architectural Drawing 2B

This course is a special problems class utilizing concepts from Architectural Drawing 1A-1B and Architectural Drawing 2A-2B. The students will design, develop, and construct an advanced set of architectural working drawings utilizing manual or computer-aided drafting.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918537, 918538

CALPADS: 7711 - Advanced Architectural Design (Capstone)

## GREEN BUILDING DESIGN 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Intro to Engineering and Architecture 1A-1B

This is a year course for students who have successfully completed Intro to Engineering and Architecture 1A-1B and Architecture Design 1A-1B. The student will design buildings to the National Green Building Standard, the International Residential Code, and the U.S. Green Building council LEED standards utilizing sustainable building practices. Students will be introduced to industry standard software that will allow them to more efficiently design the buildings and extract critical data utilized in energy efficiency calculations. Students will produce a set of construction documents and perform basic Title 24 Energy Calculations of the buildings(s).

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture      PATHWAY: Architectural Design      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918548, 918549

CALPADS: 7740 - Intermediate Environmental Engineering (Con)

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## INTERIOR DESIGN - CAD

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This is a semester course for students who are exploring the career of Interior Design. Students will learn how to design interiors with a focus on the principles of design, space requirements, room elements, building code, color and texture, renewable materials, and indoor environmental air quality. Students will produce Floor plans, Interior Elevations, and perspective views of their designs.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918545, 918545S

CALPADS: 8220 - Intermediate Machining and Forming Technolo

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## INTRODUCTION TO ENGINEERING & ARCHITECTURE DESIGN 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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**Prerequisite:** None

This course is designed to introduce students to design processes, industry standards and tools used in the engineering and architecture fields. Students will develop their spatial visualization and problem solving skills in a "hands-on" laboratory setting. Students will use hand tools to measure, layout and create part geometry, develop architectural and engineering orthographic projections and develop their "hand" craftsmanship. Students will utilize progressive computer aided drafting software to communicate their ideas through the creation of engineering and architectural drawings. Students will understand how to choose which drawing tool to use to be most efficient in the workplace. Students will produce hard copies of the completed drawings and provide electronic files in a variety of graphic outputs.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture, Manufacturing and Product Development      PATHWAY: Machining and Forming Technologies      COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Industrial Technology

**Course Codes:** 918531, 918532

CALPADS: 7730 - Intermediate Engineering Design (Concentrat

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## INTRODUCTION TO SUSTAINABLE BUILDING DESIGN 1A-1B

**Grades:** 10

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Earth Corps 1

This is a year course for students who have successfully Earth Corps 1. The student will design buildings to the National Green Building Standard and the U.S Green Building Council LEED standards utilizing sustainable building practices. Students will be introduced to industry standard software that will allow them to more efficiently design their buildings.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:** Y

**Grad Req:** Industrial Technology

**Course Codes:** 918546, 918547

CALPADS: 7740 - Intermediate Environmental Engineering (Con

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## PLTW-HONORS AEROSPACE ENGINEERING 1A-1B

**Grades:** 11

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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### Prerequisite:

PLTW Aerospace Engineering is broken into four units. The first unit is an introduction to Aerospace. Students will learn the evolution of flight, the physics of flight, and flight planning and navigation. The second unit is Aerospace Design. Students will learn the materials and structures of aircraft, types of propulsion, and flight physiology. The third unit is space. Students will learn about space travel, unmanned robotic systems, and orbital mechanics. The fourth unit is Alternative Applications. Students will learn about alternate applications of flight, remote systems, and explore aerospace career opportunities.

### CTE:

INDUSTRY SECTOR: Engineering and Architecture

PATHWAY: Engineering Design

COURSE SEQ: Year 3

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 928684, 928685

CALPADS: 7720 - Intermediate Engineering Technology (Concen)

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## PLTW-HONORS COMPUTER INTEGRATED MANUFACTURING 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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### Prerequisite:

Manufactured items are part of everyday life, yet few people understand the excitement and innovation that is used to transform ideas into products. This course provides an opportunity for students to recognize many of the exciting career opportunities in the manufacturing industry. Computer Integrated Manufacturing is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of efficiently creating the products all around us. Students build upon their Computer Aided Design (CAD) experience through the use of Computer Aided Manufacturing (CAM) software. CAM transforms a digital design into a program that a Computer Numerical Controlled (CNC) mill uses to transform a block of raw material into a product designed by a student. Students learn and apply concepts related to integrating robotic systems such as Automated Guided Vehicles (AGV) and robotic arms into manufacturing systems. Throughout the course students learn about manufacturing processes and systems. This course culminates with a capstone project where students design, build, program, and present a manufacturing system model capable of creating a product.

### CTE:

INDUSTRY SECTOR: Engineering and Architecture

PATHWAY: Engineering Technology

COURSE SEQ: Year 3

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 928680, 928681

CALPADS: 7720 - Intermediate Engineering Technology (Concen)

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**PLTW-HONORS ENGINEERING DESIGN AND DEVELOPMENT 1A-1B**

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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**Prerequisite:**

This course provides a foundation for engineering knowledge and professional practices that will be used through this and other pathway to engineering courses and throughout a student's career. Students will develop skills such as concept sketching, setting up, and maintaining an engineering notebook and portfolio. Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

Engineering is a professional practice that has evolved through centuries of experience. Learning concepts and practicing skills in this course will provide a foundation for a lifelong engineering career. This course is aligned to the Common Core State Standards for Mathematics and English Language Arts and the Next Generation Science Standards.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture

PATHWAY: Engineering Technology

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 928682, 928683

CALPADS: 7721 - Advanced Engineering Technology (Capstone)

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**PLTW-HONORS INTRODUCTION TO ENGINEERING DESIGN 1A-1B**

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:**

This course provides a foundation for engineering knowledge and professional practices that will be used through this and other pathway to engineering courses and throughout a student's career. Students will develop skills such as concept sketching, setting up, and maintaining an engineering notebook and portfolio. Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

Engineering is a professional practice that has evolved through centuries of experience. Learning concepts and practicing skills in this course will provide a foundation for a lifelong engineering career. This course is aligned to the Common Core State Standards for Mathematics and English Language Arts and the Next Generation Science Standards.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture

PATHWAY: Engineering Technology

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 925039, 925040

CALPADS: 7721 - Advanced Engineering Technology (Capstone)

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**PLTW-HONORS PRINCIPLES OF ENGINEERING  
1A-1B**

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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**Prerequisite:** Introduction to Engineering Design - PLTW recommended

This survey course of engineering exposes students to some of the major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community. This course is designed for 10th or 11th grade students.

**CTE:**

INDUSTRY SECTOR: Engineering and Architecture

PATHWAY: Engineering Technology

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 928552, 928553

CALPADS: 7720 - Intermediate Engineering Technology (Concen

## **Fashion and Interior Design Department**

### **ART & HISTORY OF FASHION 1A-1B**

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Visual Arts 1A-1B or instructor approval

This course engages students in the aesthetic aspects of two and three-dimensional design necessary to create sketches, designs and actual articles of clothing. It includes ample study and full appreciation of fashion trends throughout history and across cultures, formal and casual; ceremonial and traditional, including an understanding that styles are affected by social, cultural, historical, political, and economic influences.

Students become familiar with the elements of art and principles of design as the essential building blocks necessary to solve design problems and they learn to use appropriate vocabulary to critique designs created by themselves, their peers, and professional designers from the United States and abroad. They come to recognize and appreciate that fashion design is connected to and influenced by other art forms and other academic disciplines. This course will emphasize figure drawing, fashion sketching, and work with a variety of materials and techniques in creative projects.

**CTE:**

INDUSTRY SECTOR: Fashion and Interior Design

PATHWAY: Fashion Design and Merchandising

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915031, 915032

CALPADS: 7810 - Intermediate Fashion Design and Merhcandisi

### **ART & HISTORY OF FASHION 2A-2B**

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Visual Arts 1A-1B or instructor approval

This course engages students in the aesthetic aspects of two and three-dimensional design necessary to create sketches, designs and actual articles of clothing. It includes ample study and full appreciation of fashion trends throughout history and across cultures, formal and casual; ceremonial an traditional, including an understanding that styles are affected by social, cultural, historical, political, and economic influences.

Students become familiar with the elements of art and principles of design as the essential building blocks necessary to solve design problems and they learn to use appropriate vocabulary to critique designs created by themselves, their peers, and professional designers from the United States and abroad. They come to recognize and appreciate that fashion design is connected to and influenced by other art forms and other academic disciplines.

Students utilize technology in creating and constructing an original designs as well as learning pattern drafting methods. This course will emphasize figure drawing, fashion sketching, and work with a variety of materials and techniques in creative projects.

**CTE:**

INDUSTRY SECTOR: Fashion and Interior Design

PATHWAY: Fashion Design and Merchandising

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915033, 915034

CALPADS: 7811 - Advanced Fashion Design and Merhcandising (



## INTERIOR DESIGN 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** None

This course introduces design as a medium in residential and commercial environments. It will include an overview of the requirements for a comfortable, functioning, and aesthetically pleasing living and work space. Emphasis is placed on application of design principles and elements as well as the cultural and historical perspective of art relating to interiors and housing. Students will study career opportunities in the interior design industry. This course meets the District Fine Arts graduation requirement.

**CTE:**

INDUSTRY SECTOR: Fashion and Interior Design

PATHWAY: Interior Design

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 909137CR1, 909137SS1, 909137SS2, 909138CR2, 909138SS1, 909138SS2, 919137, 919138, 999137, 999138

CALPADS: 7820 - Intermediate Interior Design (Concentrator)

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## RETAIL FASHION MERCHANDISING 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:**

Students have the opportunity to learn the skills necessary for employment in fashion sales and coordination, cosmetic merchandising, apparel and accessory sales, visual display. Customer relations, buying, the sales process, color and current fashion trends are included in the curriculum. The student's training program may be directed to meet his/her individual needs and interests depending upon community training sites. Training sites may include department stores, apparel and specialty shops.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919381X, 919382X

CALPADS: 7810 - Intermediate Fashion Design and Merchandising

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## Health Department

### HEALTH

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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**Prerequisite:** None

This course will emphasize principles of health promotion and disease prevention. The course content will include: personal health; consumer and community health; injury prevention and safety; individual growth and development; tobacco, alcohol, and other drugs; nutrition; communicable and chronic diseases; family living, and environmental health. This course will also include units on study skills, time management, note-taking, outlining, and test-taking skills necessary for a successful high school experience.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Health

**Course Codes:** 907501, 907501CR, 907501SS1, 907501SS2, 917501, 917501S, 957501, 957501S, 957502, 967501, 967501II, 967501S, 987501, 987501S, 997501, AC7501

CALPADS: 2535 - Health education

## **Health Sciences and Medical Technology Department**

### **CTE - SPORTS MEDICINE LAB 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Completion of or concurrent enrollment in Sports Medicine & Therapeutic Services Level I or Level II with a minimum GPA of 2.0 or better

This course is designed to help students develop their skills as a healthcare provider in the areas of athletic training, physical therapy, fitness instructor, medical and sports equipment salespersons, and other sports medicine occupations. The students will train at community locations to practice and develop the skills they have learned in the classroom. Subject matter will also include such items as personal attitude, appropriate work habits, and professional appearance. The training program may be directed to meet the student's individual needs and interests, depending upon the community-training site. Training sites will include high schools, junior colleges, and college athletic training programs, private health clubs, hospitals, and private physical therapy clinics.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919325V

CALPADS: 7921 - Intermediate Patient Care (Concentrator)

### **FORENSIC SCIENCE - MEDICAL 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** 1 YEAR BIOLOGY AND 1 YEAR PHYSICAL SCIENCE

Forensic Science is a third or fourth-year, college preparatory, elective science course for those students interested in the detailed scientific investigation practices used in the criminal justice system. This rigorous, multidisciplinary course integrates concepts from biology, chemistry, physics, and Earth science. Students will use the scientific method to solve mock criminal investigations. This course allows students to explore how science and inquiry can be applied to the criminal justice system. Topics include: crime scene analysis, physical/ chemical analysis of evidence, microscopy, chromatography, hair/fiber/glass/document/fingerprint analysis, firearms, drug, toxicology, entomology, anthropology, blood (serology) and DNA analysis. Principal methods of learning include lecture, demonstration, case study analysis, forensic journal reading, forensics competitions, lab activities, capstone projects and experiments. This course will emphasize potential career pathways, critical thinking, problem-solving, observation, data analysis, data collection, digital photography and technology in addition to scientific skills and techniques.

**CTE:**  
INDUSTRY SECTOR: Health Science and Medical Technology      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 914019, 914020

CALPADS: 7900 - Introduction to Health Science and Medical

## INFECTIOUS DISEASE AND RELATED PRINCIPLES OF BIOTECHNOLOGY 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Biology and Chemistry

Infectious Disease and Related Principles of Biotechnology is STEM science elective course for students in the Biomedical pathway. This rigorous course will draw on multiple disciplines such as biology, chemistry, anatomy, physiology, pharmacology, clinical medicine and focused technology to expose students to the array of intricacies that define microbiological pathologies, established findings engineered to address previous healthcare complexities and current medical dilemmas in need of biotechnological solutions. Topics include: organismal basics, fundamental skills of a bench technician, careers in biotech, clinical aspects of disease that are either bacterial, viral, fungal or parasitic in nature. Additionally, laboratory activities will involve concepts central to foundational job skills of the bench technician, diagnostic protocol and treatment modalities applied to infectious diseases, DNA technology, as well as practices associated with food science and epidemiology.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Biotechnology

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Life Science A

**Course Codes:** 914023, 914024

CALPADS: 7912 - Advanced Biotechnology (Capstone)

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## INTRODUCTION TO FIRST RESPONDERS 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:**

This course is designed to make students aware of the health careers and specific preparation for sports medicine and emergency medicine occupations. This course provides a wealth of practical applications that will introduce you to the medical world. Extensive coverage of medical terminology, human anatomy, legal responsibilities, emergency procedures, soft tissue and bone injuries, nutrition, physical fitness, environmental concerns and career opportunities will be covered in this course. This course will also briefly cover causes, symptoms and a management of injuries. This course is designed to introduce students to different careers and allow students to identify their career path. This course is intended for students interested in becoming an athletic trainer, physical therapist, physical therapist assistant, occupational therapist, occupational therapist assistant, physician, physician's assistant, nurse practitioner, licensed practical and vocational nurse, paramedic, emergency medical technician, orthotics and prosthesis, health technologist, medical equipment sales person, nutritionist, and any other medical or emergency professional.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Patient Care

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 918672, 918673

CALPADS: 7921 - Intermediate Patient Care (Concentrator)

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## MEDICAL ANATOMY & PHYSIOLOGY 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** MEDICAL BIOLOGY AND MEDICAL CHEMISTRY

This is a two-semester course in anatomy and physiology for college preparatory or honors-level students in grades 11-12. This laboratory- oriented course includes learning all systems of the human body and basic chemistry all taught with examples related to the medical field. In addition, students also learn about related health careers, disease and disorders and medical applications that can be applied to the medical field.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Biotechnology

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 914005, 914006

CALPADS: 7911 - Intermediate Biotechnology (Concentrator)

## MEDICAL ASSISTANT - CLINICAL

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** Must be 18 years of age by the beginning of second semester, have completed 10 units of math and 10 units of life science.

This course will prepare students for employment as a medical assistant to assist the doctor in an office, clinic, or health care center. Topics include communication skills, ethics, confidentiality, anatomy, vital signs, assisting with exams, pharmacology and administration of medications including injections, venipuncture, medical terminology, metrics, EKG, and advanced charting. Students who qualify will be permitted to enhance skills learned in the classroom at community sites. Enrollment is only available at the beginning of the Fall semester.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Patient Care

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919338X

CALPADS: 7922 - Advanced Patient Care (Capstone)

## MEDICAL BIOLOGY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:**

This course is a college preparatory course in biological science. Laboratory work is an integral part of this course. These activities are designed to reinforce subject area content. Topics covered include life functions, physiological mechanisms, cell biology, molecular biology, plant anatomy and physiology, taxonomy, invertebrate zoology, natural selection, and heredity. An emphasis is placed on the evaluation of scientific and technological advances in the area of biological science

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Biotechnology

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 914003, 914004

CALPADS: 7911 - Intermediate Biotechnology (Concentrator)

## MEDICAL CHEMISTRY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

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**Prerequisite:**

This course is a college preparatory course in physical science. Topics presented are the application of metric measurement, the properties of matter, families of chemical elements, chemical change, techniques employed in the mathematical manipulation of chemical data, and the role of chemicals in modern society. The importance of chemistry in other scientific fields of study is emphasized.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Biotechnology

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 914507M, 914508M

CALPADS: 7912 - Advanced Biotechnology (Capstone)

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## MEDICAL TERMINOLOGY

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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**Prerequisite:** None

This course presents a study of basic medical terminology. Prefixes, suffixes, word roots, combining forms, special endings, plural forms, abbreviations, and symbols are included in the content.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919341OCV, AC9006, AC9007

CALPADS: 7921 - Intermediate Patient Care (Concentrator)

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## **PATHOLOGY AND RELATED PRINCIPLES OF BIOTECHNOLOGY 1A-1B**

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Medical Biology and Medical Chemistry OR Biology and Chemistry

Pathology and Related Principles of Biotechnology is an elective and the second option of a two-course sequence for the senior ERHS STEM student. This course merges lectures of traditional pathologic conditions with the unique approach of clay modeling techniques, integrating clinical skills and biotechnological innovation to bridge the realm of medical intervention with disease process. In alignment with NGSS, the five units within this course are arranged to address all of the human body organ systems. There are three key phases per unit. In the first phase, students will dive into the anatomy and physiology of disease. The majority of methods employed herein are intentionally hands-on, allowing students to explore tissue organization prior to and following structural change. There will be an emphasis on the difference between normal and abnormal conditions and what challenges arise once a disease presents itself. In the second phase the class will take a clinical focus. Students will advance their health occupations skills by learning to operate a collection of diagnostic and/or therapeutic instrumentation. This introduction to a host of medical devices is included to enhance the students' comfort level with actual equipment central to medicine today. At the core of each unit's third phase, is the engineering investigation. Initially, students will be exposed to historical dilemmas of the clinical environment and the correlating solutions derived by professionals. Next, individuals will experiment with aspects of engineering that overlap with features of normal human physiology. To conclude each unit, the students will engage in an iterative process by which they will, in teams, identify their own unsolved medical dilemma. It will be their final task to submit a theoretically substantiated resolution as well as a series of originally designed prototypes that confront their defined issue.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Biotechnology

COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Life Science A

**Course Codes:** 914021, 914022

CALPADS: 7911 - Intermediate Biotechnology (Concentrator)

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## **PLTW-HONORS BIOMEDICAL INNOVATION 1A-1B**

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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**Prerequisite:**

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. In the Biomedical Innovation course, students will be asked to apply what they have learned in the previous three courses to solve unique problems in science, medicine, and healthcare. Students will work systematically through required problems before completing optional directed problems or independent work. Each problem is staged as a mission – a unique set of tasks the students must work through to achieve their desired objective.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Biotechnology

COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 924013, 924014

CALPADS: 7912 - Advanced Biotechnology (Capstone)

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**PLTW-HONORS HUMAN BODY SYSTEMS 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** D**Prerequisite:**

In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases, and often play the role of biomedical professionals to solve medical mysteries.

**CTE:**INDUSTRY SECTOR: Health Science and Medical TechnologyPATHWAY: BiotechnologyCOURSE SEQ: Year 2**Articulated Course:****Grad Req:** Life Science A, Life Science B**Course Codes:** 924011, 924012

CALPADS: 7912 - Advanced Biotechnology (Capstone)
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**PLTW-HONORS MEDICAL INTERVENTIONS 1A-1B****Grades:** 11-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** D**Prerequisite:**

Medical Interventions (MI) allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A "How-To" manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions, reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future.

**CTE:**INDUSTRY SECTOR: Health Science and Medical TechnologyPATHWAY: BiotechnologyCOURSE SEQ: Year 3**Articulated Course:****Grad Req:** Life Science A, Life Science B**Course Codes:** 924015, 924016

CALPADS: 7911 - Intermediate Biotechnology (Concentrator)
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**PLTW-HONROS PRINCIPLES OF BIOMEDICAL SCIENCE 1A-1B**

**Grades:** 9-10

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:**

This is an introductory course of the PLTW Biomedical Science program. Students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Biotechnology

COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 924003, 924004

CALPADS: 7911 - Intermediate Biotechnology (Concentrator)

**SPORTS MEDICINE AND THERAPEUTIC SERVICES 1A-1B**

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

This course will prepare students for jobs such as fitness/exercise assistant, physical therapy aide, or athletic trainer assistant. Students will learn anatomy and physiology, body mechanics, vital signs, first aid, nutrition, exercise physiology, injury care and maintenance, patient interaction skills and use of equipment and techniques to aid patients in rehabilitation. Subject to an acceptable interview with a cooperating employer, students will train at a community location such as hospitals, clinics, sports/fitness facilities and convalescent care to practice and develop skills learned in the classroom.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919331X, 919332X

CALPADS: 7921 - Intermediate Patient Care (Concentrator)

**SPORTS MEDICINE AND THERAPEUTIC SERVICES 2A-2B**

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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**Prerequisite:** None

The aim of the Sports Medicine and Therapeutic Services level 2 program is to further develop the basic knowledge and skills of a Sports Medicine And Therapeutic Services Level 2 that in turn will improve their ability to contribute to safer sporting events and organizations. It is anticipated that the experience gained since completion of Level 1 course will provide course participants with sufficient insight to assimilate this higher level of knowledge into their role as an athletic trainer. As a consequence of completing the required course units it is expected the Sports Medicine and Therapeutic Services Level 2 will be able to apply appropriate first aid and emergency care of athletes at a more advanced standard than a Sports Medicine and Therapeutic Services 1A/1B.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology

PATHWAY: Patient Care

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919362X, 919363X

CALPADS: 7922 - Advanced Patient Care (Capstone)

## EMERGENCY MEDICAL RESPONDERS 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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### Prerequisite:

This course will teach students to provide immediate care to an ill or injured person and train them in the pre-hospital setting to assist Emergency Medical Services (EMS) providers, firefighters, EMT's, paramedics, and law enforcement officers. Instructional content area skills include the history of health care, anatomy systems and related medical terminology. The course covers EMS overview, CPR, and First Aid skills, patient assessment, legal and ethical issues, triage, assisting in clinical settings, and emergency responsibilities. This course will prepare students for enrollment in a capstone Health Course.

### CTE:

INDUSTRY SECTOR: Health Science and Medical Technology      PATHWAY: Patient Care      COURSE SEQ: Year 2

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 919347V, 919348V

CALPADS: 7922 - Advanced Patient Care (Capstone)

## INTRODUCTION TO HEALTH CAREERS

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** G

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### Prerequisite: NONE

This course is designed to provide students with an introduction to health careers and will provide them with information to develop a career plan. Emphasis is placed on the skills necessary to enter the health care field and exploration of the many different areas within healthcare.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 919346V

CALPADS: 7921 - Intermediate Patient Care (Concentrator)

## **History/Social Science Department**

### **AFRICAN AMERICAN HISTORY 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:**

This course is designed to study the influence of African upon America and the world. The saga of the African American is traced from his African origins in Ethiopia and Egypt through slavery in America to the Civil War, the "Harlem Renaissance" period through the cataclysmic Second World War, Civil Rights era, and the Black consciousness movement to the present.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919108, 919109

CALPADS: 2710 - Ethnic studies

### **AP EUROPEAN HISTORY 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** A

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**Prerequisite:** Instructor approval

This course will provide a basic understanding of events, issues, and individuals central to European history from 1450 to the present. The ability to analyze historical evidence (primary and secondary resources) and express historical understanding in writing will be emphasized. Students will be encouraged to take the Advanced Placement Examination in European History.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** World History A, World History B

**Course Codes:** 932003, 932004

CALPADS: 2774 - AP European history

### **AP GOVERNMENT AND POLITICS: US**

**Grades:** 12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** A

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**Prerequisite:** None

This course is designed to conform to the standards of the Advanced Placement Program and to the standards of the University of California. This course will help students' critical thinking skills, ability to evaluate data, and ability to analyze and synthesize evidence. In addition to discussing the fundamental governmental structures and institutions within the United States, students in this course will analyze the interaction among the branches of government, federal bureaucracy, special interest groups, political behavior, concepts of culture and their influence on government, socio-economic status and political alienation, and analyze the activities of political decision makers. Students are encouraged to take the spring Advanced Placement Examination.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Government

**Course Codes:** 932008

CALPADS: 2773 - AP U.S. govt & politics

## AP HUMAN GEOGRAPHY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** A

**Prerequisite:** None

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 939113, 939113IB, 939114, 939114IB, 949113, 949114

CALPADS: 2777 - AP Human Geography

## AP MACROECONOMICS

**Grades:** 12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** G

**Prerequisite:**

The purpose of the AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Economics

**Course Codes:** 932007MA

CALPADS: 2701 - Economics

## AP MICROECONOMICS

**Grades:** 12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:**

The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Economics

**Course Codes:** 932007MI

CALPADS: 2701 - Economics

## AP PSYCHOLOGY 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

This course is designed to provide students with an in-depth study of the major approaches to psychology. This includes the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields with psychology.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 939104, 939105

CALPADS: 2776 - AP Psychology

## AP US HISTORY 1A-1B

**Grades:** 11

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** A

**Prerequisite:** None

This course is a one-year course designed to give students a grounding in the subject matter of American history and in major interpretive questions that derive from the study of major themes in United States history. The student will examine United States history problems and topics through specialized writings by historians and through primary source and supplementary readings. Students will be given extensive practice in analyzing historical problems, collecting and sorting information, developing a thesis, and writing essays to communicate conclusions. Students are encouraged to prepare for the Advanced Placement Examination in United States History.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** US History A, US History B

**Course Codes:** 932005, 932005IB, 932006, 932006IB

CALPADS: 2775 - AP United States history

## AP WORLD HISTORY 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** A

**Prerequisite:** None

This course is designed to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their cause and consequences, as well as, comparisons among major societies. It emphasizes relevant factual knowledge used in conjunction with learning interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** World History A, World History B

**Course Codes:** 932001, 932001IB, 932002, 932002IB

CALPADS: 2778 - AP World History

## CIVIL WAR

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** G

### Prerequisite:

The Civil War course is a story of human choices link the past to the present and influenced the future. It is a drama of how one nation changed through times of conflict and cooperation. It is a tale of two children (the North and South) living under the same roof (The United States) and how they disagreed over the issues of states' rights and slavery. Even today, there are some people who believe the South won the civil War or that the North had no right to abolish slavery. Others cannot believe that people from the South found nothing wrong with enslaving fellow human beings. For all these people, their view of history differs from one another based on their perspective. As students study the Civil War, they will detect patterns in the way people thought and acted. Students will identify patterns in how battles were won and lost. Students will make connections between the past and how events happening today affect the future and how the principle of cause and effect applies in everything we do.

### CTE:

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 909107, 909107CR, 969107II, 999107

CALPADS: 2712 - Other history, culture, geography: survey

## CONTEMPORARY WORLD AFFAIRS

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

### Prerequisite: None

This course is designed to develop an awareness and understanding of current geographic, demographic, cultural, social, economic, political, and diplomatic issues and their influence on the major world powers. Attention will be given to historical antecedents and future implications of contemporary issues.

### CTE:

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 909103, 909103CR

CALPADS: 2706 - Comparative political systems

## ECONOMICS

**Grades:** 12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** G

### Prerequisite: None

This course is the systematic study of man's efforts to satisfy his wants by securing goods and services from the available scarce resources. The high school economics course is an introduction to the essential concepts, principles, values, and methods of economic analysis and their application to the modern world. Emphasis is also given to consumer problems and preparing the individual student to be a knowledgeable and effective consumer.

### CTE:

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Economics

**Course Codes:** 902007, 902007CR, 902007CR1, 902007CR2, 902007SS1, 902007SS2, 912007, 952007, 962007, 962007II, 962007SS1, 982007, 992007

CALPADS: 2701 - Economics

## ECONOMICS HONORS

**Grades:** 12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** G

**Prerequisite:** None

This course is the systematic study of micro and macro economic principles and concepts. Emphasis is placed on analysis of economic problems as they relate to personal and societal decision-making. Interpretation of graphs and mathematical data receive close attention. This course will help students' critical thinking skills, ability to evaluate data, and ability to analyze and synthesize evidence.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Economics

**Course Codes:** 922007

CALPADS: 2701 - Economics

## GEOGRAPHY

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** None

World Geography takes students on a journey around the world in which they will learn about the physical and human geography of various regions. They will study the history of each region and examine the political, economic, and cultural characteristics of the world in which you live. Students will also learn about the tools and technologies of geography such as globes, maps, charts, and global information systems.

Students will also gain practice in writing and note-taking. They will be asked to create graphic organizers, conduct research, analyze information, and write essays on topics such as current events, energy resources, and national parks.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 909106, 919106

CALPADS: 2724 - World regional geography



## GOVERNMENT

**Grades:** 12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** A

**Prerequisite:** None

This course will prepare students for their lives as citizens. Students will gain an understanding of the American political process focused on how they can enter and influence that process. To gain a working knowledge of which agencies of government affect particular problems in most citizens' lives, students will study the functions of national, state, and local governments and of the legislative, executive, and judicial branches. The course will develop and refine students' understanding of their civil rights and liberties as guaranteed by the Constitution and Bill of Rights but balanced against the government's police power. Students will be prepared to vote, to reflect on their responsibilities, and to participate in community activities.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Government

**Course Codes:** 902008, 902008CR, 902008CR1, 902008CR2, 902008SS1, 902008SS2, 912008, 952008, 962008, 962008II, 962008SS1, 982008, 992008

CALPADS: 2703 - Principles of Am. democracy/govnt and civic

## GOVERNMENT HONORS

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** A

**Prerequisite:**

Honors Government is the study of the historical backgrounds, governing principles, and institutions of the government of the United States. The focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. The principles of popular sovereignty, separation of powers, checks and balances, republicanism, federalism, and individual rights will be examined as will the roles of individuals and groups in the American political system. Students will compare the American system of government with other modern systems and assess the strengths and problems associated with the American system. The honors level course requires students to utilize higher order thinking skills such as analysis and synthesis while completing more rigorous assignments. In addition, more emphasis is placed on research mastery and project-based learning.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Government

**Course Codes:** 922008

CALPADS: 2703 - Principles of Am. democracy/govnt and civic

## MORALS AND ETHICS

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** None

This course is an introduction to ethics and moral philosophy, the branch of philosophy which concerns conduct and how we ought to live. Students explore the nature of ethics, important challenges to ethics as traditionally construed by philosophers, and several ethical theories prominent in the history of philosophy. Throughout the inquiry, students will have occasion to discuss various contemporary moral problems and see how ethical theories have addressed them.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919102

CALPADS: 2713 - Philosophy

## PSYCHOLOGY 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

This course is designed to meet a variety of student needs in developing an understanding of the complexities of human psychology. This course will focus on the following areas of study: (1) developmental psychology, (2) learning theories, (3) historical perspectives of psychology, (4) personality development, (5) mental health, (6) sensation and perception, (7) self-esteem, (8) suicide prevention, (9) sex role identification and development, (10) interpersonal relations, (11) mechanics of stress and stress management, (12) obsessive-compulsive behavior (13) application of methodologies in psychology, (14) preventing addictions and drug abuse, and (15) current issues in psychology.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 909104, 909104CR, 909104SS1, 909104SS2, 909105, 909105CR, 909105SS1, 909105SS2, 919104, 919105, 999104, 999105, AC2007, AC2008

CALPADS: 2714 - Psychology

## PSYCHOLOGY IB HL2

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** None

The IB Diploma Programme higher level psychology course content examines the biological, cognitive and sociocultural influences on human behavior and includes the following topics: History of Psychology, Research Methods, States of Consciousness, Learning, Memory, Personality, Thinking & Language, Individual Differences & Testing, Neuroscience, Human Diversity, Sensation & Perception, Motivation & Emotion, Development Through the Lifespan, Psychological Disorders & Therapy, Stress & Health and Social Psychology. The course content also includes analyzing research findings to better understand human behavior and ensure ethical practices are upheld in psychological inquiry.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 949105

CALPADS: 2763 - IB Psychology

## SOCIAL PSYCHOLOGY 1A-1B

**Grades:**                      **Duration:** Year                      **Credits:** 10 Credits                      **UC/CSU:** G

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### Prerequisite:

This course is designed to provide a basic knowledge of psychology and counseling. The course is based on a survey of the principles of psychology, with a special reference to human behavior, social-emotional development, motivation, learning, and the shaping of behavior by both internal and environmental factors. While touching on all the five domains included in the APA National Standards for High School psychology curriculum, the course focuses on three of these domains: bio-psychological domain, developmental domain, and cognitive domain. Additionally, students will evaluate and apply psychological domain knowledge to improve the quality of individual and community life while serving in a supervised peer mentoring role.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 919110, 919111

CALPADS: 2714 - Psychology

---

## US HISTORY 1A-1B

**Grades:** 11                      **Duration:** Year                      **Credits:** 10 Credits                      **UC/CSU:** A

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### Prerequisite: None

This course introduces and elaborates upon fundamental principles and concepts in the history of our country. The course begins with a brief review of United States history from the colonial period to the late nineteenth century. The course then proceeds to emphasize twentieth century American history. Students are encouraged to analyze the historical roots of current events within America. Students are encouraged to critically examine historical issues from multicultural perspectives.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** US History A, US History B

**Course Codes:** 902005, 902005CR, 902005CR1, 902005CR2, 902005SS1, 902005SS2, 902006, 902006CR, 902006CR1, 902006CR2, 902006SS1, 902006SS2, 912005, 912005AM, 912005DI, 912005P, 912006, 912006AM, 912006DI, 912006P, 952005, 952006, 962005, 962005II, 962005SS1, 962006, 962006II, 962006SS1, 982005, 982006, 992005, 992006, AC2004

CALPADS: 2709 - United States history

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## VIETNAM ERA

**Grades:** 09-12                      **Duration:** Semester                      **Credits:** 5 Credits                      **UC/CSU:** G

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### Prerequisite:

For many, the Vietnam War represents a difficult time in U.S. history. It is defined by an unpopular war that claimed the lives of 58,000 Americans and some 3 million Vietnamese. In this course, students will look at the history of the Vietnam War. The roots of the conflict stretch further back than many students are aware of. Students will examine why the United States got involved in the conflict and why the United States failed to achieve its objectives.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 909108, 909108CR, 969108II, 999108

CALPADS: 2712 - Other history, culture, geography: survey

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**WORLD GEOGRAPHY PHYSICAL/CULTURAL  
PERSPECTIVE HONORS 1A-1B**

**Grades:** 9

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** A

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**Prerequisite:** None

This course is designed to provide comprehensive knowledge of land forms and how they have influenced political, economic and social development within different geographical regions. The course will further develop map and graph reading, cartography, absolute and relative location skills that will facilitate student understanding of the relationship of human activity as it effects the environment. The course builds on ideas and standards found in the history/social science framework and state standards for the 10th grade world history and 11th grade United States history courses.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 929107, 929107SK, 929108, 929108SK

CALPADS: 2724 - World regional geography

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**WORLD HISTORY 1A-1B**

**Grades:** 10

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** A

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**Prerequisite:** None

This course is to encourage students to develop an understanding of and interest in world history. Critical thinking skills, basic study skills, and participation skills are emphasized so that students will understand the relevance of world history in their everyday lives. This World History course emphasizes the essential world history issues between the late eighteenth century to present.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** World History A, World History B

**Course Codes:** 902001, 902001CR, 902001CR1, 902001CR2, 902001SS1, 902001SS2, 902002, 902002CR, 902002CR1, 902002CR2, 902002SS1, 902002SS2, 912001, 912001DI, 912001PR, 912002, 912002DI, 912002PR, 952001, 952002, 962001, 962001II, 962001SS1, 962002, 962002II, 962002SS1, 982001, 982002, 992001, 992002, AC2002

CALPADS: 2711 - World history: survey

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**WORLD HISTORY HONORS 1A-1B****Grades:** 10**Duration:** Year**Credits:** 10 Credits**UC/CSU:** A**Prerequisite:** None

This course serves as a history-social science college-preparatory course. Students will be engaged in extensive reading and writing assignments. This course will help students' critical thinking skills, ability to evaluate historical data, and ability to analyze and synthesize historical evidence. Honors World History introduces and elaborates upon fundamental principles and concepts in world history. The course begins with a brief review of world history up to the late nineteenth century. Then the course proceeds to emphasize world history from the scientific revolution to modern times. Students are encouraged to analyze the historical antecedents of current events facing the Global Community today. Students are encouraged to critically examine historical issues from multicultural perspectives.

**CTE:**INDUSTRY SECTOR: NonePATHWAY: NoneCOURSE SEQ: None**Articulated Course:****Grad Req:** World History A, World History B**Course Codes:** 922001, 922001RI, 922001STEM, 922001Z, 922002, 922002RI, 922002STEM, 922002Z

CALPADS: 2711 - World history: survey
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## **Hospitality, Tourism and Recreation Department**

### **BAKING AND PASTRY 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

Baking and Pastry is a year-long Career and Technical Education course in the Food Service and Hospitality Pathway. Students will focus on experiences that emphasize industry standards and guidelines preparing them for a future career or further education in the Food Service and Hospitality industry sector. Students will learn the art of baking and pastry. They will learn the basics of mixing, shaping, and baking for several types of baked goods including: quick breads, cakes, pastry-dough, mousses, sauces, glazes, cookies, candies, and confections. Students will participate in a variety of hands on wet and dry instructional labs focusing on plated desserts, international baked foods, chocolate work, and cake decorating. The student's instructional experience will take place in the school site kitchen lab. Baking and Pastry is being added to the district's Career and Technical Education course options as a course in the Food Service and Hospitality Career and Technical Education pathway. This course has been designed as an introductory course to the art and science of baking and pastry making. In the future, an Advance Baking and Pastry course would follow in sequence with the Culinary Arts related coursework.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 919204, 919205

CALPADS: 8020 - Intermediate Food Service and Hospitality (

### **CULINARY ARTS 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** None

This program prepares students with entry-level skills that will enable them to seek employment in institutional, commercial or independently owned food establishments or other food and hospitality industry occupations. Instruction includes topics such as an overview of the restaurant industry; safety and sanitation; reading a recipe; learning a variety of cooking methods and when to use them; and use of commercial food equipment. Upon passing the test, students will receive a food handler's card valid for Riverside County. Students will also create an e – portfolio documenting the techniques they have learned.

**CTE:**  
INDUSTRY SECTOR: Hospitality, Tourism, and Recreation      PATHWAY: Food Services and Hospitality      COURSE  
SEQ: Year 2

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 919200, 919201

CALPADS: 8021 - Advanced Food Service and Hospitality (Caps

## CULINARY ARTS 2A-2B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

This program prepares students with advanced skills that will enable them to seek employment in institutional, commercial or independently owned food establishments or other food and hospitality industry occupations. It focuses on both the foundations of restaurant management, as well as skills in culinary arts. Instruction includes topics such as preparing breakfast foods, sandwiches, meat, poultry, seafood, desserts and baked goods; purchasing and inventory; sustainability in the restaurant and foodservice industry; and international foods. Students will complete an e – portfolio demonstrating all the culinary arts techniques they have learned this year. Upon completion of this course, students will earn a career skills certificate for Foodservice and Culinary Arts.

**CTE:**

INDUSTRY SECTOR: Hospitality, Tourism, and Recreation      PATHWAY: Food Services and Hospitality      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 919202, 919203

CALPADS: 8020 - Intermediate Food Service and Hospitality (

## FOODS 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course is designed to introduce the students to the basics of food preparation and nutrition. Studies will include efficient kitchen management, use of small equipment, cooking terms and techniques. Competency in these skills will be demonstrated in cooking labs. Credit will be earned from written assignments, tests, class projects and lab participation.

**CTE:**

INDUSTRY SECTOR: Hospitality, Tourism, and Recreation      PATHWAY: None      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 909132CR, 909133CR, 919132, 919133, 979132LS, 979133LS, 999132, 999133

CALPADS: 8010 - Intermediate Food Science, Dietetics, and N

## INTRODUCTION TO CULINARY ARTS 1A-1B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** None

Introduction to Culinary Arts is an introductory course that will prepare students to enter the Food Service and Hospitality pathway. This course will provide students with the foundational knowledge of kitchen safety and sanitation, kitchen equipment, proper industry terminology, nutrition, as well as American and International cuisine. Students will use kitchen equipment, supplies, products, and procedures in an interdisciplinary approach to culinary arts. Students will develop their skills through practical, hands on training that meets industry standards.

**CTE:**

INDUSTRY SECTOR: Hospitality, Tourism, and Recreation      PATHWAY: Food Services and Hospitality      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 919198, 919199

CALPADS: 8020 - Intermediate Food Service and Hospitality (

## RESTAURANT OCCUPATIONS

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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**Prerequisite:** None

This course is designed to prepare students for entry-level employment in the food industry. In an operational campus-based restaurant students will learn the proper use of kitchen tools, equipment, portion control, how to measure items, plan menus and figure costs, sanitation and safety, personal hygiene, job search and interpersonal skills' attitudes necessary to secure and maintain a job. Students who qualify will be permitted to enhance skills learned in community training sites.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919373OCV, 919373OCX, 919373OCY

CALPADS: 8020 - Intermediate Food Service and Hospitality (



## **Information and Communication Technologies Department**

### **ADVANCED STUDIES - GAMES & SIMULATIONS 1A-1B**

**Grades:** 12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

A culminating course, Advanced Studies focuses on an essential question in a selected career pathway containing thirty technical credits. Two courses should be a first and second level course and one highest-level course. The course is applicable to all Career-Technical Education program areas. The course project includes a paper, a working portfolio, a presentation, and a project. As a base for developing the course project, students use knowledge, skills, and attitudes attained from previous courses taken. The project must be of sufficient depth to require extensive review of literature. With mentor assistance and interviews, the project should lend itself to identification of a problem, examination of possible solutions or directions, and analysis of the impact of solutions. In addition, they will write, speak, solve problems, and use life skills such as time management and organization. Students work under the guidance of a Career-Technical Education teacher/facilitator in collaboration with community partners, business representatives, and other school-based personnel. Skill development and career-technical student organization leadership activities provide opportunities to apply instructional competencies and workplace readiness skills to authentic experiences.

**CTE:**

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Games and Simulations      COURSE  
SEQ: Year 4

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 918650, 918651

CALPADS: 8142 - Advanced Games and Simulation (Capstone)

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### **AP COMPUTER SCIENCE A 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:**

Computer Science Advanced Placement/AB places major emphasis on programming methodology, algorithms, and data structures. Applications of computing provide the context in which these subjects are treated; applications are used to develop student awareness of the need for particular algorithms and data structures, as well as to provide topics for programming assignments to which students can apply their knowledge. A particular programming language constitutes the vehicle for implementing computer-based solutions to particular problems. Treatments of computer systems and the social implications of computing are integrated into the course and not isolated as separate units. JAVA will be the language of Computer Science Advanced Placement/AB.

**CTE:**

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Systems Programming      COURSE  
SEQ: Year 4

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 938692, 938693

CALPADS: 8132 - Advanced Systems Programming (Capstone)

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## AP COMPUTER SCIENCE PRINCIPLES 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

### Prerequisite:

Advanced Placement Computer Science Principles is a yearlong course that is designed to be an equivalent to a first semester college computing course. Consisting of 5 units, approximately 6 weeks each, the course is based on the Computational Thinking Practices(CTP) Framework( Connecting Computing, Creating Computational Artifacts, Abstracting, Analyzing Problems and Artifacts, Communicating and Collaborating). Topics in this course include but are not limited to binary conversion, numbering systems, binary encoding, internetworking, algorithmic thinking, cybersecurity, privacy and crime, abstraction, String processing, loops, arrays, and big data structures. At the conclusion of this course, students will create a performance task, and explore a performance task in preparation for submission to the college board.

### CTE:

INDUSTRY SECTOR: Information and Communication Technologies  
SEQ: Year 2

PATHWAY: Systems Programming

COURSE

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 938690, 938691

CALPADS: 8131 - Intermediate Systems Programming  
(Concentra)

## COMPUTER PROGRAMMING IN JAVA 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** GC

**Prerequisite:** CONCURRENT ENROLLMENT IN INTEGRATED MATH 3 OR HIGHER

The purpose of Computer Programming in Java is to introduce a diverse population of students to the science of computer programming through interesting and engaging course work that is both challenging and age appropriate. We will provide a structured and safe learning environment in which students can explore their interests in programming and computing as well as exercise creativity and critical thinking in the use of technology. Students will develop understanding of computer hardware, operating systems, networks, software, and programming principles. They will develop fluency in the Java programming language and utilize standard programming constructs and data structures to solve well-defined problems. Students will design, implement, and test computer code using an object oriented approach so that code is reliable and reusable. Students will discover and utilize a wide variety of resources available to them as they develop lifelong learning skills and build technological competence. This course will prepare students for advanced topics in computer programming including AP Computer Science courses. Lastly students will come to understand the diversity of course work and research in the areas of computer science, information technology Management, and other technology majors available at the collegiate level.

### CTE:

INDUSTRY SECTOR: Information and Communication Technologies  
SEQ: Year 3

PATHWAY: Systems Programming

COURSE

### Articulated Course:

**Grad Req:** Business

**Course Codes:** 918046, 918047

CALPADS: 8132 - Advanced Systems Programming (Capstone)

## DIGITAL DRAWING FOR GAME ART 1A-1B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** HISTORY OF VIDEO GAMES, VGD - INTRO TO 3D MODELING

Introduction to digital drawing techniques using industry standard software. Topics include usage of digital drawing hardware, digital image manipulation, techniques for digitally painting custom textures, exploration of the elements of art as they apply to games, composition, and perspective, layout design, character design, and concept development. Includes development of observational, motor, and creative skills. Use of layers, layer styles, adjustment layers and blending modes.

**CTE:**

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Games and Simulations      COURSE  
SEQ: Year 2

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918031, 918032

CALPADS: 8142 - Advanced Games and Simulation (Capstone)

## EXPLORING COMPUTER SCIENCE 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:**

Exploring Computer Science is a yearlong course consisting of 6 units, approximately 6 weeks each. The course was developed around a framework of both computer science content and computational practice. Assignments and instruction are contextualized to be socially relevant and meaningful for diverse students. Topics include: human computer interaction, web design, introduction to programming, computing and data analysis, and robotics.

**CTE:**

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Systems Programming      COURSE  
SEQ: Year 1

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918690, 918691

CALPADS: 8131 - Intermediate Systems Programming  
(Concentra

## GAME DESIGN PRINCIPLES 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** DIGITAL GAME DESIGN RECOMMENDED

An introduction to the fundamental techniques, concepts, and vocabulary of game design. Students will design original non-digital prototypes and games, using iteration and playtesting best practices. Topics include formal elements of games, mechanics and dynamics, decision-making, flow states and player psychology, the MDA Framework, the iterative process, and rapid prototyping.

**CTE:**

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Games and Simulations      COURSE  
SEQ: Year 3

**Articulated Course:**

**Grad Req:** Business

**Course Codes:** 918033, 918034

CALPADS: 8142 - Advanced Games and Simulation (Capstone)

## HISTORY OF VIDEO GAMES

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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### Prerequisite:

A comprehensive study of the evolution of video games throughout history including arcade games, console games, computer games and mobile applications. Students will become acquainted with representative game designs through playing games, analyzing games, reading and writing about games. (Note: if Introduction to Game Design is taken during the 8th grade year, students may advance to the next course in the pathway.)

### CTE:

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Games and Simulations      COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918017

CALPADS: 8141 - Intermediate Games and Simulation (Concentr

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## IB COMPUTER SCIENCE HL 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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### Prerequisite:

IB Computer Science HL is a 2nd Year IB course for the IB diploma program. During this course, students will explore the variety of programs as required by the International Baccalaureate Program. Topics are derived from four areas of study including system fundamentals, computer organization, networks, and programming (computational thinking). In addition, each student must choose one option from the following areas: database design, modeling and simulation, web science, or object orientated programming (OOP) using the Java programming language. Additional areas of study include abstract data structures, control, and resource management. The course will conclude with a research-based project on the various components of the course.

### CTE:

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 948690, 948691

CALPADS: 8131 - Intermediate Systems Programming (Concentra

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## INTRODUCTION TO GAME PROGRAMMING

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** History of Video Games

A first course in programming for games stressing fundamental programming principles. Students are introduced to computer programming logic with hands on game development projects using an industry standard game engine. This course will cover the logic structures and design paradigms that allow for fundamental interactions in a visual and object oriented environment.

### CTE:

INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Games and Simulations      COURSE SEQ: Year 1

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918048

CALPADS: 8141 - Intermediate Games and Simulation (Concentr

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## INTRODUCTION TO SIMULATION AND GAME DEVELOPMENT

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** History of Video Games

An introduction to the field of simulation and computer gaming. Course provides an introductory look at the fundamentals of simulation and computer games used in various industries—entertainment, military, finance, medical, education, and law enforcement. Topics include licensing and franchising, marketing, business development, game design, storytelling, and development life cycle.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:** Y

**Grad Req:** Business

**Course Codes:** 918049

CALPADS: 8141 - Intermediate Games and Simulation (Concentr

## NETWORK - IT ESSENTIALS 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

This course covers the fundamentals of computer hardware and software and advanced concepts such as security, networking, and the responsibilities of an IT professional. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the Internet and share resources in a networked environment. New topics in this version include mobile devices such as tablets and smartphones and client side virtualization. Expanded topics include the Microsoft Windows 7 operating system, security, networking, and troubleshooting. Hands-on lab activities are an essential element of the course. The Virtual Laptop and Virtual Desktop are standalone tools designed to supplement classroom learning and provide an interactive "hands-on" experience in learning environments with limited physical equipment. Cisco Packet Tracer activities are designed for use with Packet Tracer 5.3. The use of Packet Tracer will support alignment with the new CompTIA A+ certification objectives.

**CTE:**  
INDUSTRY SECTOR: Information and Communication Technologies      PATHWAY: Networking      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918630, 918631

CALPADS: 8121 - Intermediate Networking (Concentrator)

## NETWORK ENGINEERING TECHNOLOGY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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### Prerequisite:

Networking Academy™ students will learn technology concepts with the support of interactive media and apply and practice this knowledge through a series of hands-on and simulated activities that reinforce their learning. CCNA Routing and Switching teaches comprehensive networking concepts and skills, from network applications to the protocols and services provided to those applications by the lower layers of the network. Students will progress from basic networking to more complex enterprise and theoretical networking models later in the curriculum, levels 2 and 3. Students learn the basics of routing, switching, and advanced technologies to prepare for the Cisco CCENT and CCNA certification exams, networking related degree programs, and entry-level networking careers.

The language used to describe networking concepts is designed to be easily understood by learners at all levels and embedded interactive activities help reinforce comprehension. Courses emphasize critical thinking, problem solving, collaboration, and the practical application of skills. Multimedia learning tools, including videos, games, and quizzes, address a variety of learning styles and help stimulate learning and promote increased knowledge retention. Hands-on labs and Cisco® Packet Tracer simulation-based learning activities help students develop critical thinking and complex problem solving skills. Embedded assessments provide immediate feedback to support the evaluation of knowledge and acquired skills.

Network Engineering I can be taught through the Introduction to Networks module or the Network Basics module.

The Introduction to Networks module is taught within an everyday experience context with a bottom-up approach to the OSI model.

The Network Basics module is taught within a business applications context with a top-down approach to the OSI model.

### CTE:

INDUSTRY SECTOR: Information and Communication Technologies

PATHWAY: Networking

COURSE SEQ: Year 2

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 918620, 918621

CALPADS: 8122 - Advanced Networking (Capstone)

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## NETWORK ENGINEERING TECHNOLOGY 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Network Engineering Technology I

Network Engineering II consists Routing & Switching Essentials. This module describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

### CTE:

INDUSTRY SECTOR: Information and Communication Technologies

PATHWAY: Networking

COURSE SEQ: Year 3

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 918622, 918623

CALPADS: 8121 - Intermediate Networking (Concentrator)

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**PLTW COMPUTER SCIENCE ESSENTIALS 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** G**Prerequisite:**

Computer Science Essentials is designed to be a full-year (180-day) course implemented in the 9th grade. This course is an excellent entry point for new high school computer science (CS) learners. And students who have prior CS experiences will find ample opportunity to expand upon those experiences in this course. All students who take CS Essentials will have many opportunities for creative expression and exploration in topics of personal interest, whether it be through app development, web design, or connecting computing with the physical world.

**CTE:**INDUSTRY SECTOR: NonePATHWAY: NoneCOURSE SEQ: None**Articulated Course:****Grad Req:** Industrial Technology**Course Codes:** 918692, 918693

CALPADS: 8131 - Intermediate Systems Programming (Concentra
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## **International Baccalaureate Department**

### **ART/DESIGN 1A-1B IB**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** Students should have completed an introductory level art course and exhibit high-level reading and writing skills

The expression of human ideas, beliefs, behaviors and the cultural/social contexts from which they originate are found in all aspects of the visual and performing arts. Study of the arts offers students the opportunity to explore and bring meaning to the world in which they live. Offered as a "sixth subject" in the IB curriculum, this course is designed to assist college-bound students in developing critical thinking and aesthetic valuing skills, as well as provide exposure, independent exploration and research related to the media, techniques, historical and social contexts of the visual arts. Each student will produce a completed research workbook demonstrating knowledge gained through their independent exploration of the arts and meeting the standards of the IB assessment criteria. This course will allow students to complete the standard level B International Baccalaureate examination in Art/Design. This course would also fulfill a one year fine arts requirement for graduation.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 945001, 945002, 945007, 945008

CALPADS: 2860 - IB Art/design

### **BIOLOGY 1A-1B HONORS MYP**

**Grades:**      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** D

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**Prerequisite:** Minimum 3.0 grade point average for previous school year or the consent of the instructor

This course will provide an introduction for college bound students to science course work in the International Baccalaureate Program. This course acts as a gateway to the higher level science courses and lays the groundwork for scientific method, data collection and analysis, and general laboratory technique. The students in this laboratory course will first study basic biological processes that apply to all organisms. These initial investigations will focus on cytology, bioenergetics, and genetics. After mastery of basic biological concepts, students will then relate these processes to organisms as they study progressively complex life forms. Students will relate form to function and role in the ecosystem for selected organisms as they study microbiology, botany, and invertebrate zoology. Students will be evaluated on both written and lab work, as well as a year-long project. The emphasis in all lab work will be on data analysis to develop critical thinking skills.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 944001, 944002

CALPADS: 2665 - MYP Science (biology, chemistry, or physics)



## BIOLOGY HONORS HL2

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** Completion of Biology 1A-1B Honors with a "C" or better or instructor approval

This course is designed to meet the needs of students who seek to pass either the Advanced Placement or higher level IB examination in biology. In addition to mastery of biological concepts at a collegiate level, this course will promote critical thinking in analysis and interpretation of laboratory data. In this course, the emphasis is not only on content, but on the process of scientific inquiry. In the laboratory, the students will use scientific apparatus to collect data, testing hypotheses according to both instructor and self-generated protocol. Data will be analyzed and evaluated critically to validate conclusions. Topics investigated will include biochemistry, cytology, genetics, ecology, evolution, behavior, and general zoology.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 944003, 944004

CALPADS: 2660 - IB Biology

## CHEMISTRY 1A-1B HONORS/IB

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** Chemistry Honors (Pre-IB) or instructor approval or student is recommended to be co-enrolled in Algebra 2 if not already completed

This course is a rigorous honors course and will cover atomic theory, stoichiometry, periodicity, bonding, states of matter, enthalpy and entropy, kinetics, equilibrium, acid-base reactions, redox reactions, basic organic chemistry, proper lab procedures, proper lab safety.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 944507, 944508

CALPADS: 2661 - IB Chemistry

## COMPARATIVE 20TH CENTURY HISTORY 1A-1B

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** A

**Prerequisite:** Admittance to the International Baccalaureate Program; grade of "C" or better in U.S. History.

This course will focus upon twentieth-century world government and political history and will include the study of social, cultural, and ideological history, with special emphasis on economic theory. A goal will be to develop an awareness of both continuity and change in the past and a knowledge of different interpretations of history. As a result of this study, students will gain a global perspective of humankind's accomplishments and failures.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 942009, 942010

CALPADS: 2762 - IB History

## FESTIVAL WINDS IB HL 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Completion of one year participation in an instrumental music course and audition or approval of the teacher.

The major emphasis of this course is to provide an intensive examination of the process, content, and analysis of music through demonstration, and performance. Emphasis is placed on performing quality concert band literature, as well as development of the fundamentals of balance, blend, intonation, and rhythm. Students will focus on four components: Musical Perception, Creating, Solo Performing, & Group Performing.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 945121, 945122, 945123, 945124

CALPADS: 2360 - IB Music

## LANGUAGE ARTS 1A-1B HONORS MYP

**Grades:** 9

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Admittance to the International Baccalaureate Program. It is recommended that after completing 1A Honors (Pre-IB) a student should have a grade of "C" or better to continue on to 1B second semester

This course will focus on the development of the student's ability to use the writing process in response to a literature-based curriculum. The course will integrate reading, writing, listening, and speaking. The language skills necessary to master the writing process will be emphasized. The course covers units in poetry, drama, essays, and novels and will entail a rigorous program of reading and writing in preparation for the oral and written exams for the International Baccalaureate degree. An emphasis will be placed on world literature, including classical mythology, to develop the student's awareness of global perspectives in literature.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 1A, Language Arts 1B

**Course Codes:** 941001, 941002

CALPADS: 2161 - MYP Language A

## LANGUAGE ARTS 2A-2B HONORS MYP

**Grades:** 10

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Admittance to the International Baccalaureate Program. It is recommended that after completing 2A Honors (Pre-IB) a student should have a grade of "C" or better to continue on to 2B second semester

This course will focus on the development of the student's ability to use the writing process in response to a literature-based curriculum. The course will integrate reading, writing, listening, and speaking. The language skills necessary to master the writing process will be emphasized. The course covers units in poetry, drama, essays, and novels and will entail a rigorous program of reading and writing in preparation for the oral and written exams for the International Baccalaureate degree. An emphasis will be placed on world literature to develop the student's awareness of global perspectives in literature. An emphasis will also be placed on the study of the Bible as literature to facilitate the students' understanding of biblical references and allusions in literature they will encounter in their IB and AP classes.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 2A, Language Arts 2B

**Course Codes:** 921004IB, 941003, 941004

CALPADS: 2161 - MYP Language A

## LANGUAGE ARTS 3A-3B IB HL1

**Grades:** 11

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Admittance to the International Baccalaureate Program. It is recommended that after completing 2B Honors (Pre-IB) a student should have a grade of "B" or better to continue on to LA 3A Honors/IB

This course is the first year of a two-year sequence leading to Language Arts 4 AP/IB. The course covers units in poetry, drama, essays, and novels and will include an emphasis on world literature as well as American literature. It will entail a rigorous program which will integrate reading, writing, listening, and speaking skills in response to a literature-based curriculum. It will develop critical thinking skills and proper skills of language while offering challenging literary works emphasizing higher level thinking skills. Students will be expected to read and write extensively.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 3A, Language Arts 3B

**Course Codes:** 941005, 941006

CALPADS: 2174 - IB Language A: Language & Literature

## LANGUAGE ARTS 4A-4B IB HL2

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Admittance to the International Baccalaureate Program. It is recommended that after completing 3B Honors/IB, a student should have a grade of "B" or better to continue on to Language Arts 4 AP/IB

This course is the second year of a two-year sequence leading to both the IB exam and the AP exam. This course is focused on the preparation of students for college-level literature and writing courses and for both the IB exam and the AP exam. The course will integrate reading, writing, listening, and speaking as it encompasses poetry, drama, essays, and novels. This course involves college-level reading material and subject matter. It will develop critical thinking skills and proper skills of language, while offering challenging literary works emphasizing higher-level thinking skills.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 4A, Language Arts 4B

**Course Codes:** 941007, 941008

CALPADS: 2173 - IB Language A: Literature

## MATHEMATICAL 1A-1B IB SL

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** : "B" or better in Pre-Calculus 1B or "C" or better in Pre-Calculus 1B Honors

This course is a year-long course designed for students planning on taking the International Baccalaureate SL mathematics exam. Students from outside the IB Program are encouraged to apply. Students will learn formal logic, linear algebra, and probability and statistics. Students will review algebra, functions and equations, circular functions and trigonometry, and calculus.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 943515, 943516

CALPADS: 2461 - IB Mathematical methods

## MATHEMATICAL STUDIES 1A-1B HNR IB

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** "C" or better in Algebra 2, Algebra 2 Honors or instructor approval

IB diploma candidates will be expected to know and utilize various types of functions such as linear, quadratic, exponential, and numerical functions; be able to collect, calculate and present statistics derived from experimental data; have an understanding of the language of sets; utilize De Morgan's Law as they apply to sets and logic; use business techniques to compute compound interest; compute with vectors and matrices; extend coordinates into three dimensions; and investigate and use trigonometric functions and properties as they relate to triangles, graphs, and spherical surfaces. Candidates will use this mathematical knowledge in an original piece of research in the form of a project. The culmination of the course will be to take the IB Mathematical Studies Standard Level Exam.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 943513, 943514

CALPADS: 2460 - IB Mathematical studies

## PHYSICS 1A-1B HONORS HL2

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** Physics 1A-1B Honors/IB, "C" or better; Algebra, "C" or better. Student is recommended to be co-enrolled in Pre-Calculus if not already completed

This class prepares students for the IB and/or the AP exams in physics. This class fulfills one of the Higher Level requirements for the IB diploma. There are four major areas of study, each with its own core content. Relative Motion covers one and two-dimensional motion and dynamics, and rotational dynamics and kinematics. Relativity and Astrophysics covers Einstein's special relativity, stellar formation and evolution and cosmology. Students will study electricity and magnetism, electromagnetic fields and radiation, as well as basic circuit elements. Atomic and Nuclear Physics covers atomic, nuclear, and electronic structure, as well as fission, fusion, and radioactivity and decay. Laboratory work is a vital part of this project. Great emphasis will be placed on hands-on study, including several open-design challenges, such as building wind-up cranes, boom-a-ranges, or rollercoasters.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 944511, 944512

CALPADS: 2662 - IB Physics

## PHYSICS 1A-1B HONORS/IB

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** "C" or better in Physics Honors (Pre-IB). May be waived with instructor approval; Geometry "C" or better. Student is recommended to be co-enrolled in Algebra if not already completed

There are four major areas of study, each with its core content. Mechanics includes vector analysis and laws of motion, including planetary motion and spaceflight. Work, Energy, and Collisions studies how mechanical work is converted to useful energy, including momentum and energetic collisions. Molecular behavior studies the properties of substances as they change from gas to liquid to solid and the energy changes that take place. Waves and Fields includes diverse topics such as mechanical waves in water and air, wave optics such as lenses, mirrors, and optical devices such as telescopes and microscopes; static electricity and magnetic fields and their interaction are also included. Laboratory work is a vital part of this project. Great emphasis will be placed on hands-on study, including several open-design challenges, such as building wind-up cars, simple steam power plants, or building a small airplane from scratch.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 944509, 944510

CALPADS: 2662 - IB Physics

## THEATRE ARTS 1A-1B IB HL1

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Grade of "B" in Theatre ARTs 1A-1B or instructor approval.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 945401, 945402, 945403, 945404

CALPADS: 2175 - IB Literature & Performance SL

## THEORY OF KNOWLEDGE 1A-1B IB

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** Admittance to the International Baccalaureate Program; grade of "C" or better in U.S. History 1A-1B Language Arts Honors or teacher referral is strongly recommended

This course is designed to increase the students' understanding of what they have learned from their formal schooling. An understanding of how we acquire knowledge will serve as the course focus. The course will lead students to reflect on what they have learned and how the major areas of knowledge support and reinforce future acquisition of knowledge. Where appropriate, new concepts will be introduced to help tie various subject areas together. Students are encouraged to use subject area knowledge to promote racial, cultural, and intellectual tolerance. Students learn to engage in intellectual discussion and understand viewpoints different from their own. This course is a requirement for all students pursuing an IB diploma.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 949111, 949112

CALPADS: 2768 - IB Theory of knowledge

## WORLD GEOGRAPHY 1A-1B HNR MYP

**Grades:** 9

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** A

**Prerequisite:**

THE 9TH GRADE HONORS WORLD GEOGRAPHY COURSE IS A ONE-YEAR COURSE DESIGNED TO PROVIDE COMPREHENSIVE KNOWLEDGE OF LAND FORMS AND HOW THEY HAVE INFLUENCED POLITICAL, ECONOMIC AND SOCIAL DEVELOPMENT WITHIN DIFFERENT GEOGRAPHICAL REGIONS. THE COURSE WILL FURTHER DEVELOP MAP AND GRAPH READING, CARTOGRAPHY, ABSOLUTE AND RELATIVE RELATIONSHIP OF HUM ACTIVITY AS IT EFFECTS THE ENVIRONMENT. THE COURSE BUILDS ON IDEAS AND STANDARDS FOUND IN THE HISTORY/SOCIAL SCIENCE FRAMEWORK AND STATE STANDARDS FOR THE 10TH GRADE WORLD HISTORY AND 11TH GRADE UNITED STATES HISTORY COURSES.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 939107, 939108, 949107, 949108

CALPADS: 2769 - MYP Humanities (history and/or geography)

## Language Arts Department

### **ACADEMIC ENGLISH SUPPORT 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** ELD 1, 2 or equivalent

English Support is an intensive intervention course where students actively learn and apply academic English that is designed to help them prepare for the high stakes testing that they will encounter at the high school level. These skills directly support the California Common Core English Language Arts Standards, the California English Language Arts Standards and ELD standards for grades 9-12, and college and career readiness. The curriculum is designed to accelerate higher level linguistic skills in English learners who currently have agility with social interactional English. It will engage students through high-interest topics that are relevant to adolescents' lives and concerns. The informational texts help students feel connected, informed and eager to take a stance on a variety of topics (Kinsella, 2011). Students will learn to effectively use academic language through reading, writing, discussing, and presenting on a routine basis. The student learning and performance goals are supported with academic vocabulary, grammar, group and individual discussion and reflection, writing, and speeches.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919186, 919187

CALPADS: 2102 - Basic English/Language Art (Proficiency Dev)

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### **ADVANCED JOURNALISM 3A-3B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Intermediate Journalism 2A-2B or teacher recommendation

This elective course is open to high school students who excelled in Intermediate Journalism and wish to demonstrate leadership in editing and/or managing the campus newspaper. This course is a writing and editing oriented class with emphasis on precise, concrete, accurate and factual prose published for the school community. Students demonstrate their skills in the art of newspaper writing and production: news, sports, feature, editorial, and review writing; proof reading, editing, reporting, interviewing, typing in word processing and layout software, and layout design. Students also demonstrate their ability to write well under pressure, gather information independently and organize it cooperatively and work effectively with their peers. Through extensive rewriting, students exhibit mastery in all of these skills. This course will also include the leadership and management of newspaper and magazine production.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919085, 919086

CALPADS: 2111 - Journalism

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## AP ENGLISH LANGUAGE & COMPOSITION 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Admission to Honors Program or identification as a G.A.T.E. student. For 3B a grade of "C" or better in the first semester for enrollment in the second semester

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 3A, Language Arts 3B

**Course Codes:** 931005JR, 931005JRP, 931006JR, 931006JRP

CALPADS: 2101 - Comprehensive English

## AP ENGLISH LITERATURE & COMPOSITION 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Admission to Honors Program or identification as a G.A.T.E. student, and a "C or better in the first semester for enrollment in the second semester

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 4A, Language Arts 4B

**Course Codes:** 931007SR, 931007SRP, 931008SR, 931008SRP

CALPADS: 2101 - Comprehensive English

## CREATIVE WRITING/LITERATURE

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** None

This course is designed to help students develop skills in writing fiction and poetry. Students will study superior literary works as models for their own writing. In daily writing they will imitate excellent literary models and will create original works of literature using both traditional and innovative forms. Students will be expected to develop individual portfolios of high quality writings. Students choosing to take the Creative Writing/Literature course receive general elective credit.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 909089SS1, 919089, 919090

CALPADS: 2113 - Composition

## CSU EXPOSITORY READING & WRITING 1A-1B

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Language Arts 1, 2 and 3

The goal of the Expository Reading and Writing Course is to prepare college-bound seniors for the literacy demands of higher education. Through a sequence of fourteen rigorous instructional modules, students in this yearlong, rhetoric-based course develop advanced proficiency in expository, analytical, and argumentative reading and writing. The cornerstone of the course—the assignment template—presents a process for helping students read, comprehend, and respond to nonfiction and literary texts. Modules also provide instruction in research methods and documentation conventions. Students will be expected to increase their awareness of the rhetorical strategies employed by authors and to apply those strategies in their own writing. They will read closely to examine the relationship between an author's argument or theme and his or her audience and purpose; to analyze the impact of structural and rhetorical strategies; and to examine the social, political, and philosophical assumptions that underlie the text. By the end of the course, students will be expected to use this process independently when reading unfamiliar texts and writing in response to them. Course texts include contemporary essays, newspaper and magazine articles, editorials, reports, biographies, memos, assorted public documents, and other nonfiction texts. The course materials also include modules on two full-length works (one novel and one work of nonfiction). Written assessments and holistic scoring guides conclude each unit.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 4A, Language Arts 4B

**Course Codes:** 911007ERW, 911007P, 911008ERW, 911008P, 981007ERW, 981008ERW

CALPADS: 2118 - Expository Reading/Writing

## ELEMENTS OF JOURNALISM 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

This introductory course develops writing skills and prepares students to work on school publications and media staffs including newspaper, yearbook, literary magazine, and television production. Students will develop news, sports, feature, and editorial writing skills. Emphasis is also given to interviewing, advertising, copy-reading and proofreading, headline writing, caption writing, layout and design. The student will also learn about First Amendment rights and responsibilities, journalism law and history. This course includes a study of modern newspapers, the history of journalism in the United States, newspaper organization, analysis of news, the effects of propaganda, and news gathering and writing. In the second semester, students focus upon a study of the physical makeup of a newspaper and the production of a cub edition.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919081, 919082

CALPADS: 2111 - Journalism

## ENGLISH 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** English Language Learner (CEDLT 1)

This course shelters literature to cover the aspects of reading, writing, listening, and speaking in context. English learners will develop standards-based knowledge and skills to advance their academic language proficiency. Connections to literature, real-life experiences, historical contexts, and cultural influences will also be emphasized. This course helps build a foundation for understanding both fiction and non-fiction literature. Through reading strategies, theme-related vocabulary, literary concepts, as well as formal and informal discussions, students will acquire the basics of English literature. Additionally, students will begin to develop grammar applications and obtain writing skills from sentence-to-paragraph level as they progress towards ongoing language development.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 989141, 989142

CALPADS: 2110 - English Language Development

## ENGLISH 2A-2B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Complete English Language Learner (ELD) 1 and English 1; English Learner (CELDT 2)

This course shelters literature to cover the aspects of reading, writing, listening, and speaking in context. English learners will develop standards-based knowledge and skills to advance their academic language proficiency. Connections to literature, real-life experiences, historical contexts, and cultural influences will also be emphasized. This course continues to build an understanding of both fiction and non-fiction literature. Through reading strategies, theme-related vocabulary, literary concepts, as well as formal and informal discussions, students will acquire increased appreciation for literature in English. Additionally, students will further develop grammar applications and writing skills from paragraph-to-essay level as they progress towards ongoing academic language development.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 989143, 989144

CALPADS: 2110 - English Language Development

## ENGLISH 3A-3B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** English 2 or equivalent

English 3 is an intensive course of academic and college/career readiness English instruction. The purpose of the English 3 course is to prepare students to succeed in college-preparatory, grade-level mainstream or SDAIE/Sheltered English courses. The course utilizes research-based instructional strategies to engage English learners. Student learning and performance goals for the course English 3 are based on the California English Language Arts State Standards Grades 9-12, California Common Core English Language Arts and ELD Standards for Grades 9-12, and the California Common Core English Language Arts Standards assessed by the California High School Exit Exam (CAHSEE).

This course is specifically designed to engage English learners in listening, speaking, reading, and writing exercises that require higher-level thinking skills. The course will connect students with a variety of reading selections including essays, novels, short stories, dramas, and expository selections. The conventions of the English language and the elements of composition (grammar, usage, and mechanics) will be taught through text-based exercises, the study of exemplars, student-produced writing samples and texts read outside the classroom. In English 3, written activities (including speeches) will require the use of reflection, supported claims and assertions, primary and secondary sources, and the analysis of point of view when necessary. In order to ensure that students will be successful in all college preparatory content classes, the following research supported cognitive strategies will be explicitly taught during this course: predicting, activating, inferring, monitoring-clarifying, questioning, searching-selecting, summarizing, visualizing-organizing, analyzing author's craft and purpose, and self-monitoring while reading (McEwan, 2007; Harvey, 2000; Zimmerman and Keene, 1997; Pressley, 2000). In addition, students will continue to explore bilingual/bicultural career opportunities.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 989151, 989152

CALPADS: 2110 - English Language Development

## ENGLISH LANGUAGE DEVELOPMENT (ELD) 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** English Language Learner (CELDT 1)

This course develops academic English, grammar and language to cover the aspects of reading, writing, listening, and speaking in context. English learners will develop standards-based knowledge and skills to advance their academic language proficiency.

Connections to basic interpersonal communication skills (BICS) will be emphasized through literature, real-life experiences, historical contexts, and cultural influences. This course helps build a foundation for understanding through interpersonal and academic vocabulary development. By using reading strategies, unit-related vocabulary, literary concepts, grammar development and conjugation, students will acquire the basics of English language and grammar. Additionally, students will obtain writing skills from word-to-phrase-to-sentence level as they progress towards ongoing language development.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 1A, Language Arts 1B

**Course Codes:** 981009, 981010

CALPADS: 2101 - Comprehensive English

## ENGLISH LANGUAGE DEVELOPMENT (ELD) 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

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**Prerequisite:** English Language Learner (CELD 2)

This course further develops academic English, grammar and language to cover the aspects of reading, writing, listening, and speaking in context. English learners will continue to develop standards-based knowledge and skills to advance their academic language proficiency. Connections to basic interpersonal communication skills (BICS) will be emphasized through literature, real-life experiences, historical contexts, and cultural influences. This course helps build a foundation for understanding through interpersonal and academic vocabulary development. By using reading strategies, unit-related vocabulary, literary concepts, grammar development and conjugation, students will acquire the basics of English language and grammar. Additionally, students will obtain writing skills from phrase-to-sentence-to-paragraph level as they advance in their language development.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 2A, Language Arts 2B

**Course Codes:** 981011, 981012

CALPADS: 2101 - Comprehensive English

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## ENGLISH LANGUAGE DEVELOPMENT (ELD) 3A-3B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** English Language Learner and (CELD 3)

This course further develops academic English, grammar and language to cover the aspects of reading, writing, listening, and speaking in context. English learners will continue to develop standards-based knowledge and skills to advance their academic language proficiency. Connections to cognitive academic language proficiency (CALP) will be emphasized through literature, real-life experiences, historical contexts, and cultural influences. This course focuses on mastery of content standards and academic vocabulary. By using reading strategies, unit-related vocabulary, literary concepts, and grammar mastery, students will attain near-native fluency of the English language. Additionally, students will obtain writing skills from sentence-to-paragraph-to-essay level as they advance in their language development.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 989145, 989146

CALPADS: 2110 - English Language Development

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## LANGUAGE ARTS 1A-1B

**Grades:** 9

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** None

This course focuses on the development of the student's ability to use the writing process in response to a literature-based curriculum. The course will integrate reading, writing, listening, and speaking. The language skills necessary to master the writing process will be emphasized. In-depth studies of selected literary works will provide an opportunity to study human values through literature.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 1A, Language Arts 1B

**Course Codes:** 901001, 901001CR, 901001CR1, 901001CR2, 901001SS1, 901001SS2, 901002, 901002CR, 901002CR1, 901002CR2, 901002SS1, 901002SS2, 911001, 911001L, 911001P, 911002, 911002L, 911002P, 951001, 951002, 961001, 961001II, 961001SS1, 961002, 961002II, 961002SS1, 981001, 981001L, 981001SS1, 981001SS2, 981002, 981002L, 981002SS1, 981002SS2, 991001, 991002

CALPADS: 2101 - Comprehensive English

## LANGUAGE ARTS 1A-1B HONORS

**Grades:** 9

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** Admission to Honors Program or identification as a G.A.T.E. student. For 1B a grade of "C" or better in 1A Honors

This course focuses on the development of the student's ability to use the writing process in response to a literature-based curriculum. The course will integrate reading, writing, listening, and speaking. The language skills necessary to master the writing process will be emphasized. In-depth studies of selected literary works will provide an opportunity to study human values through literature.

In the Honors Program, students will be offered challenging literary works emphasizing higher level thinking skills. Honors students will be expected to read and write extensively.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 1A, Language Arts 1B

**Course Codes:** 921001, 921001P, 921001RI, 921001SK, 921001STEM, 921002, 921002P, 921002RI, 921002SK, 921002STEM

CALPADS: 2101 - Comprehensive English

**LANGUAGE ARTS 2A-2B****Grades:** 10**Duration:** Year**Credits:** 10 Credits**UC/CSU:** B**Prerequisite:** None

This course focuses on the development of the student's ability to use the writing process in response to a literature-based curriculum. This course will integrate reading, writing, listening, and speaking. Students will experience a variety of literary genres with an emphasis on world literature. The course will develop critical thinking skills and the proper use of language. Vocabulary will be taught within the context of the literature. This course will help students develop values and an understanding of themselves and others.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** Language Arts 2A, Language Arts 2B

**Course Codes:** 901003, 901003CR, 901003CR1, 901003CR2, 901003SS1, 901003SS2, 901004, 901004CR, 901004CR1, 901004CR2, 901004SS1, 901004SS2, 911003, 911003L, 911003P, 911003PR, 911004, 911004L, 911004P, 911004PR, 951003, 951004, 961003, 961003II, 961003SS1, 961004, 961004II, 961004SS1, 981003, 981003L, 981004, 981004L, 991003, 991004

CALPADS: 2101 - Comprehensive English
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**LANGUAGE ARTS 2A-2B HONORS****Grades:** 10**Duration:** Year**Credits:** 10 Credits**UC/CSU:** B

**Prerequisite:** Admission to Honors Program or identification as a G.A.T.E. student. For 2B a grade of "C" or better in 2A Honors

This course focuses on the development of the student's ability to use the writing process in response to a literature-based curriculum. This course will integrate reading, writing, listening, and speaking. Students will experience a variety of literary genres with an emphasis on world literature. The course will develop critical thinking skills and the proper use of language. Vocabulary will be taught within the context of the literature. This course will help students develop values and understanding of themselves and others.

In the Honors Program, students will be offered challenging literary works emphasizing higher level thinking skills. Honors students will be expected to read and write extensively.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** Language Arts 2A, Language Arts 2B

**Course Codes:** 921003, 921003P, 921003STEM, 921004, 921004P, 921004STEM

CALPADS: 2101 - Comprehensive English
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## LANGUAGE ARTS 3A-3B

**Grades:** 11

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** B

**Prerequisite:** None

This course focuses on the development of the student's ability to use the writing process in response to a literature-based curriculum. This course will integrate reading, writing, listening, and speaking. Students will experience a variety of literary genres with an emphasis on American literature. This course will develop critical thinking skills and proper language skills. Vocabulary will be developed within the context of the literature. This course will help students develop a better understanding of American cultural values and historical perspectives.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Language Arts 3A, Language Arts 3B

**Course Codes:** 901005, 901005CR, 901005CR1, 901005CR2, 901005SS1, 901005SS2, 901006, 901006CR, 901006CR1, 901006CR2, 901006SS1, 901006SS2, 911005, 911005AM, 911006, 911006AM, 951005, 951006, 961005, 961005II, 961005SS1, 961006, 961006II, 961006SS1, 981005, 981006, 991005, 991006, AC1006

CALPADS: 2101 - Comprehensive English

## LANGUAGE ARTS STANDARDS MASTERY

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** Failure to pass the California High School Exit Exam

This course is designed to provide review and remediation for students who have not yet passed the language arts section of the California High School Exit Exam(CAHSEE). Course components include the following: word analysis, vocabulary development, reading comprehension, and literary response and analysis; writingstrategies, written and oral language conventions, and writing applications (domains and their characteristics). Standards emphasized in the course are those tested on the CAHSEE. This course earns elective credit and may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 909182, 909182S, 909182SS1, 909182SS2, 919182, 919182F, 919182S, 919182U, 959182, 959182S, 969182, 969182II, 969182S, 969182SS1

CALPADS: 2102 - Basic English/Language Art (Proficiency Dev)



## LANGUAGE ARTS-READING SKILLS 1A-1B

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course is an elective course which emphasizes basic reading skills. Students reading ability will be diagnosed and instruction will be provided to include decoding strategies, contextual and structural analysis, vocabulary development, reading fluency and corresponding writing and listening skills. Enhancing reading comprehension, through reading to learn strategies will be stressed to provide opportunities for students to become powerful readers. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919183, 919184, 959185, 969183, 969184, 969185, 969185SS1, 989185

CALPADS: 2100 - Reading improvement/developmental reading

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## READING

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course is an elective course which emphasizes basic reading skills. Students reading ability will be diagnosed and instruction will be provided to include decoding strategies, contextual and structural analysis, vocabulary development, reading fluency and corresponding writing and listening skills. Enhancing reading comprehension, through reading to learn strategies will be stressed to provide opportunities for students to become powerful readers. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919185, 919185W, 969185II

CALPADS: 2100 - Reading improvement/developmental reading

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## SHORT STORY

**Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

The short story will be studied as a particular genre in terms of analysis and evaluation of all its elements. A variety of authors and universal themes will be included. Writing, listening, and speaking activities will be based on the short stories read. Students choosing to take the Short Story course receive general elective credit

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919092

CALPADS: 2109 - Other literature

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## SPEECH & DEBATE

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor approval

This course is designed for the student interested in communication and public speaking. The course will provide the student with training in logical thinking, research techniques and argumentative strategies necessary for effective public speaking. This course would be helpful for students interested in pursuing careers in law, government, business, education, or any field in which persuasive discourse is essential. Students will have the opportunity to participate in various academic competitions and community programs to accomplish course goals. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919101

CALPADS: 2112 - Speech

## THE NOVEL

**Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course is designed to acquaint students with fiction in order to develop their appreciation of the novel as an art form and as a vehicle for varying ideas, human issues, and cultural and aesthetic values. Writing, listening, and speaking activities will be based on the novels read. Students choosing to take the Novel course receive general elective credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919091

CALPADS: 2109 - Other literature

## YEARBOOK 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** Instructor approval

This course is designed with the primary function of producing a yearbook for the total student body. Students should seek enrollment out of a desire to work in one or more of the following areas: graphic design, written communication, typing, business skills, and/or photography. The staff shall be selected to insure a group that is well balanced in these performance areas. However, students will be expected to perform in all areas. If a student is interested in being a photographer, he/she should own (or have the use of) a 35mm camera. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919087, 919088

CALPADS: 2821 - Yearbook

## INTERMEDIATE JOURNALISM 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Elements of Journalism 1A-1B or teacher recommendation

This elective course, the prerequisite for Advanced Journalism, is open to high school students with superior writing skills who wish to demonstrate their ability to produce the campus newspaper. This course is a writing oriented class with emphasis on precise, concrete, accurate and factual prose. The focus will be reporting information about and for the school community. Students demonstrate their skills in the art of newspaper writing and production: news, sports, feature, editorial, and review writing; proof reading, editing, reporting, interviewing, typing in word processing and layout software, and layout design. Students also demonstrate their ability to write well under pressure, gather information independently and organize it cooperatively, and work effectively with their peers. Through extensive rewriting, students exhibit mastery in all of these skills. This course will also include the mechanics (ad layouts, cartooning, photography, graphics) of newspaper and magazine production.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919083, 919084

CALPADS: 2111 - Journalism

## **Manufacturing and Product Development Department**

### **COMPUTER-AIDED DRAFTING (CAD) 2A-2B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** Computer-Aided Drafting (CAD) 1A-1B

This course is an advanced program in Computer-Aided Drafting utilizing AutoCAD, AutoCAD Designer, Autovision, and Autosurf software. The students will develop three-dimensional solid models and produce working drawings for those models. They will create the geometry of three-dimensional objects and manipulate the drawings using parametric dimensions.

**CTE:**  
INDUSTRY SECTOR: Engineering and Architecture, Manufacturing and Product Development      PATHWAY: Machining and Forming Technologies      COURSE SEQ: Year 2

**Articulated Course:** Y

**Grad Req:** Industrial Technology

**Course Codes:** 918519, 918520

CALPADS: 8221 - Advanced Machining and Forming Technologies

### **DESIGN MANUFACTURING TECHNOLOGY 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Industrial Drafting 1A-1B and/or Metals 1A-1B, or a Senior Honors Math and Science student

This is an advanced level industrial technology course which integrates drafting, CAD, wood, metals, and plastics. In this course students study design, manufacturing and management components of modern industry while reinforcing academic learning, creative expression and role playing in an industrial setting. Students are evaluated on participation, design concepts, creativity, computer-aided drafting and computer automated manufacturing (CAD/CAM) skills, computer numerical control (CNC) machining, and dimensional inspection of the final product.

**CTE:**  
INDUSTRY SECTOR: Manufacturing and Product Development      PATHWAY: Machining and Forming Technologies      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918515, 918516

CALPADS: 8220 - Intermediate Machining and Forming Technolo

## DESIGN MANUFACTURING TECHNOLOGY 2A-2B

**Grades:**                      **Duration:** Year                      **Credits:** 10 Credits                      **UC/CSU:** None

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**Prerequisite:** Design and Manufacturing 1A-1B

An Advanced problem solving Design course that will give students a chance to apply techniques learned in the Design and Manufacturing 1A / 1B class. Advanced skills in CNC programming on the Lathe and Mill will challenge students to problem solve and create projects on their own. Students will be assigned projects to be completed for course credit. Examples wood be Principals Awards and Sports Awards.

**CTE:**

INDUSTRY SECTOR: Manufacturing and Product Development                      PATHWAY: Machining and Forming Technologies                      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918527, 918528

CALPADS: 8221 - Advanced Machining and Forming Technologies

## GRAPHIC DESIGN 1A-1B

**Grades:** 09-12                      **Duration:** Year                      **Credits:** 10 Credits                      **UC/CSU:** F

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**Prerequisite:** None

In Graphic Design I students will explore two-dimensional and three-dimensional real-world applications of design. After acquiring a historical context of graphic design, students will develop skills in artistic perception, critiquing, and application of design strategies through experiences that emphasize solving visual art problems. Students will develop an awareness of historical trends in design, themes and subject matter from diverse times, places and cultures. Art criticism experiences will further develop a student's ability to see how their personal life affects their interpretations of design. All experiences will focus on developing perception and application of the elements of art and principles of design through contemporary design applications.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment                      PATHWAY: Design, Visual, and Media Arts                      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915021, 915021YB, 915022, 915022YB

CALPADS: 7211 - Intermediate Graphic Design (Concentrator)

## GRAPHIC DESIGN 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

**Prerequisite:** Graphic Design 1A-1B

Advanced Graphic Design 2A-2B is a continuation of the beginning course, offered to students who have successfully completed Graphic Design 1A-1B in a previous school year. Students will be given opportunities to expand upon their previously acquired skills, continuing to grow as artists, designers, creative thinkers, and problem solvers. Like the prerequisite course, Graphic Design 2A/2B will develop students' skills in artistic perception, critiquing, and application of design strategies. The course will also provide an overview of relevant cultural contexts, and will prepare students to pursue graphic design at the collegiate level. This course will cover advanced graphic design concepts such as typography, perspective, aesthetics, visual communication, and artist/client relations. It will also revisit basic art principles such as the elements of art, color theory, art history, and creative expression. Students will become proficient with Adobe programs such as Photoshop, Illustrator, and In-Design. Projects will include Business Card and Letterhead Design, Product Packaging, Logo Design, Font Design, Movie Posters, Book Covers, and more.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment

PATHWAY: Design, Visual, and Media Arts

COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915023, 915024

CALPADS: 7212 - Advanced Graphic Design (Capstone)

## INDUSTRIAL METAL 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

This course is a basic metalworking course designed to give the student an introduction to sand casting, the use of sheet metal and welding processes in project manufacturing and in industrial applications. Instruction is given in safety, tool and material identification, casting practices, gas welding, braze welding, and arc welding. Each student is expected to complete various welding skill tests, a sheet metal project, and a sand casting project.

**CTE:**

INDUSTRY SECTOR: Manufacturing and Product Development

PATHWAY: Welding and Materials Joining

COURSE

SEQ: Year 1

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918571, 918572, 978572LS

CALPADS: 8230 - Intermediate Welding and Materials Joining

## INDUSTRIAL METAL 2A-2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** "C" or better in Industrial Metal 1B or instructor approval

This course introduces students to individual product design, development, and manufacturing. Instruction is given in safety, tool, and equipment identification and the process cycle of manufacturing. Each student is expected to complete skills/tasks in sheet metal and foundry.

**CTE:**

INDUSTRY SECTOR: Manufacturing and Product Development      PATHWAY: Welding and Materials Joining      COURSE  
SEQ: Year 2

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918573, 918574

CALPADS: 8231 - Advanced Welding and Materials Joining (Cap)

## INDUSTRIAL METAL 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in Industrial Metal 2B or instructor approval

This course provides students with theoretical and practical design concepts of manufacturing. Instruction is given on the processes of manufacturing sheet metal and foundry products. Each student is given design problems and is required to produce examples of their skills.

**CTE:**

INDUSTRY SECTOR: Manufacturing and Product Development      PATHWAY: Welding and Materials Joining      COURSE  
SEQ: Year 3

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918575, 918576

CALPADS: 8230 - Intermediate Welding and Materials Joining

## INDUSTRIAL METAL 4A-4B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in Industrial Metal 2B, concurrent enrollment in level 3 courses or instructor approval

This course offers the student an opportunity to gain additional experiences in developing metalworking and leadership skills. This course is designed to be taken concurrently with Industrial Metal 3A or 3B and allows the student who is occupationally oriented in metalworking an opportunity to receive credit for two periods of metalworking. Each student is expected to complete a large or highly complicated metal product.

**CTE:**

INDUSTRY SECTOR: Manufacturing and Product Development      PATHWAY: Welding and Materials Joining      COURSE  
SEQ: Year 4

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918577, 918578

CALPADS: 8231 - Advanced Welding and Materials Joining (Cap)

## MANUFACTURING AND PROTOTYPING 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

### Prerequisite:

This course has been developed to integrate skills and concepts from the Manufacturing and Product Development Sector with applied mathematics and English. It is a competency-based course which provides students with project-based learning (PBL) and Work-based learning (WBL) opportunities to design (and follow-through post-design, quality control management), safe and cost effective human made products. Students will apply the craft skills required to design and produce a variety of manufactured products that meet current industry standards. Students will make real-world connections between product development, Math, and English using a variety of student centered projects including analysis of product designs and determination of efficient use of resources, (product material, manufacturing process, human). This course also covers legal and regulatory issues, ethical and professional protocols, and the development of employability skills through job shadowing and internships. The competencies in this course are aligned with the California Career Technical Education Model Curriculum Standards and the Common Core State Standards. This course provides the opportunity to apply academic knowledge and technical skills through a hands-on curriculum that meets pre-apprenticeship requirements for the National Institute for Metalworking Skills.

### CTE:

INDUSTRY SECTOR: Manufacturing and Product Development Technologies      PATHWAY: Machining and Forming  
COURSE SEQ: Year 1

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 918529, 918530

CALPADS: 8220 - Intermediate Machining and Forming Technolo

## MECHATRONIX 1A-1B

**Grades:** 09-12

**Duration:** Semester

**Credits:** 10 Credits

**UC/CSU:** G

### Prerequisite:

This semester long course is designed to introduce students to the manufacturing and logistics industries by engaging students in interdisciplinary learning of Science, Technology, Engineering, and Math (STEM) through a hands-on, project based approach. Students will learn to implement industrial safety practices according to Occupational Safety and Health Administration (OSHA) guidelines, develop skills in print reading and tool and machinery use, increase understanding of the applied physics concepts utilized in hydraulics, pneumatics, and mechanical systems, apply logic concepts through AC and DC electrical programming activities, and expand creative abilities through the design of multi-dimensional models using computer aided design (CAD) software such as SolidWorks which are then produced through production methods such as CNC machining, injection molding, 3d printing or others.

### CTE:

INDUSTRY SECTOR: Manufacturing and Product Development      PATHWAY: Product Innovation and Design      COURSE  
SEQ: Year 1

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 918556, 918557

CALPADS: 8240 - Intermediate Product Innovation and Design



## MECHATRONIX 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

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### Prerequisite:

This year long course course is designed to reinforce skills learned in Mechatronix 1a by engaging students in interdisciplinary learning of Science, Technology, Engineering, and Math (STEM) through a hands-on, project based approach. Students will practice implementation of industrial safety practices according to Occupational Safety and Health Administration (OSHA) guidelines, refine skills in print reading and tool and machinery use, increase understanding of the applied physics concepts utilized in hydraulics, pneumatics, and mechanical systems, develop advanced logic concepts through AC and DC electrical programming activities, and further expand creative abilities through the design of multi-dimensional models using computer aided design (CAD) software such as SolidWorks which are then produced through production methods such as CNC machining, injection molding, 3d printing or others.

### CTE:

INDUSTRY SECTOR: Manufacturing and Product Development

PATHWAY: Product Innovation and Design

COURSE

SEQ: Year 2

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 918558, 918559

CALPADS: 8241 - Advanced Product Innovation and Design (Cap)

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## ROBOTICS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

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### Prerequisite:

Robotics for the Supply Chain and Manufacturing Industries. This course is designed for the student who has little or no knowledge of electronics. This is both a "What" is electronics and "How To Do It" program. The student will be introduced to sources of electricity and practical applications of electricity and electronics. This is a "hands-on" program in which the student will learn by doing. The hands-on approach also teaches practical applications in Mathematics, English, and Physical Sciences.

### CTE:

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

### Articulated Course:

**Grad Req:** Industrial Technology

**Course Codes:** 918640, 918641

CALPADS: 8240 - Intermediate Product Innovation and Design

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## ROBOTICS AND AUTOMATION TECHNOLOGY

### 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:**

This year long course is designed to engage students in interdisciplinary learning of Science, Technology, Engineering, and Math (STEM) skills through a hands-on, project based approach. Students will design and construct a robot capable of performing a series of tasks as specified by the instructor to solve problems related to those found in the manufacturing and logistics industries. Amattrol learning centers will allow students to become proficient in foundational skills relevant to manufacturing and logistics automation technicians. Students will practice implementation of industrial safety practices according to Occupational Safety and Health Administration (OSHA) guidelines, refine skills in print reading and tool and machinery use, increase understanding of the applied physics concepts utilized in hydraulics, pneumatics, and mechanical systems, develop advanced logic concepts through AC and DC electrical programming activities, and further expand creative abilities through the design of multi-dimensional models using computer aided design (CAD) software such as SolidWorks which are then produced through production methods such as CNC machining, injection molding, 3d printing or others. In addition to technical skills, "soft skills" such as project management, teamwork, and conflict resolution will be overtly taught and practiced.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918642, 918643

CALPADS: 8240 - Intermediate Product Innovation and Design

## 3D PRINTING 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:**

This is a one year hands on elective class for students considering Engineering as a career. It is a problem solving design course that will allow students a chance to problem solve and create projects on their own. Students will be assigned projects to be completed for course credit.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918554, 918555

CALPADS: 8220 - Intermediate Machining and Forming Technolo

## **Marketing Sales and Service Department**

### **RETAIL SALES/MARKETING 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

This course provides experience and skills needed to obtain employment in a variety of retail stores and in the fashion industry. Classroom instruction includes cash register operation, salesmanship, customer service, visual merchandising, store security and loss prevention, merchandising, stocking and receiving, personal development, and job search. Training programs may be directed to meet students' individual needs and interests, depending upon community training sites available. Training sites may include department stores, food and drug stores, specialty stores and on-campus student stores.

**CTE:**

INDUSTRY SECTOR: Marketing, Sales, and Service      PATHWAY: Professional Sales      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919379X, 919380X

CALPADS: 8320 - Intermediate Professional Sales (Concentrat

### **SPORTS AND ENTERTAINMENT MARKETING**

**Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This instructional program prepares individuals to master marketing foundations and apply principles to the unique characteristics of the Sports & Entertainment marketing field. The curriculum will cover an introduction to both beginning and advanced level marketing concepts and is designed to prepare students for future careers or a college-level program in Sports & Entertainment Marketing. Topics will include sports and entertainment, career and college exploration, college and amateur sports, professional sports, recreation, the entertainment industry, public relations, advertising and promotion and public relations.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919383OCV, 919383OCX, 919383OCY

CALPADS: 8310 - Intermediate Marketing (Concentrator)

## **Mathematics Department**

### **AP CALCULUS AB 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** C

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**Prerequisite:** "B" or better in Pre-Calculus 1B or "C" or better Pre-Calculus 1B Honors

This course is designed for students who wish to earn college credit in Calculus by taking the Calculus AB Advanced Placement Examination. It is designed for those students who plan to major in mathematics, engineering, computer science, or a math related field. This course covers such topics as: the Cartesian plane and functions, limits and their properties, differentiation and its applications, integration, logarithmic and exponential functions, differentiation and integration of logarithmic, exponential and other transcendental functions, volumes by disc, and cross sectional areas.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 933513, 933514

CALPADS: 2480 - AP Calculus AB

### **AP CALCULUS BC 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** C

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**Prerequisite:** "A" in Pre-Calculus 1B Honors (with teacher recommendation), Calculus 1B Advanced Placement/AB, or Calculus 1B

This course is designed for students who wish to earn college credit in Calculus by taking the Calculus BC Advanced Placement Examination. The BC exam covers more topics than does the AB exam and earns more credit at most colleges and universities. It is designed for those students who plan to major in mathematics, engineering, computer science, or a math related field. This course reviews topics such as: Cartesian plane and functions, limits and their properties, differentiation and its applications, integration and its applications. This course also emphasizes integration through partial fraction decomposition, trigonometric integration, L'Hopital's rule, improper integrals, infinite series, Taylor and Maclaurin series and polynomial approximations, parametric, polar, and vector functions, analysis of planar curves in parametric form, polar form and vector form, derivatives of parametric, polar, and vector functions, Euler's method, and slope fields.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 933515, 933515ABC, 933516, 933516ABC

CALPADS: 2481 - AP Calculus BC

## AP STATISTICS 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** "B" or better in Algebra 2 or "C" or better in Algebra 2 Honors

This course will cover the following topics: exploring data (interpreting graphical displays of distributions, summarizing and comparing distributions of univariate data, and exploring bivariate and categorical data); planning a study (planning, conducting, and generalizing results from surveys and experiments); producing models using probability theory and simulation (probability as relative frequency, combining independent random variables, the normal distribution, and sampling distributions); statistical inference-confirming models (use of confidence intervals, testing of significance and hypothesis, and appropriate use of the t-distribution). Students will review for the Advanced Placement Statistics Test.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 933509, 933510

CALPADS: 2483 - AP Statistics

## CALCULUS 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** "C" or better in Pre-Calculus 1B or Pre-Calculus 1B Honors

This course is for students who wish to continue in the math sequence and experience Calculus before attending a University. It is designed for those students who wish to take Calculus at the high school level without taking the Advanced Placement Test. Calculus 1A-1B covers such topics as: the Cartesian plane and functions, limits and their properties, differentiation and its applications, integration, logarithmic and exponential functions, differentiation and integration of logarithmic, exponential and other transcendental functions, volumes by disc, shell, and cross sectional areas.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 913513, 913514

CALPADS: 2415 - Calculus

## CEEP MATHEMATICS

**Grades:** 12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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### Prerequisite:

College Entrance Exam Preparation (CEEP) Mathematics is a semester long math course that prepares students for college mathematics entrance exams by reviewing and teaching standards required for success on placement exams. The course content includes the topical categories of Numbers and Data Analysis, Algebra 1 Standards, Geometry Standards, Logarithms and Exponential functions, Basic Trigonometry, and selected Algebra 2 Standards.

Notes: Recommended Prerequisites: Students should have completed Algebra 1B and Geometry 1B with grades of C or higher for second semester grades. Students scoring below 550 on the College Board SAT Mathematics Exam, or scoring below 23 on the Mathematics portion of the ACT Exam, or students receiving a Conditional Readiness or below on the EAP, or students not taking mathematics during their senior year are encouraged to take this semester class.

### CTE:

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Mathematics

**Course Codes:** 913506, 913506S

CALPADS: 2498 - Other mathematics course

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## EAP MATH 1A-1B

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

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**Prerequisite:** RECOMMENDED PREREQUISITE Integrated Math 3

EAP Math is a year-long course designed for the college-bound student who received a score of “conditionally ready” on the EAP. This course will provide a comprehensive review and extension of high school math concepts and introduction to new concepts needed for college mathematics courses. Topics to be reviewed and extended will be algebra, geometry, graphing, and probability. New topics to be introduced will be set theory, introduction to logic, number theory, trigonometry, and statistics. Students enrolled in EAP Math receive preparation for college level math requirements and for college math entrance/placement examinations.

### CTE:

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Mathematics

**Course Codes:** 913525, 913526

CALPADS: 2498 - Other mathematics course

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## ELEMENTS OF STATISTICS

**Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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### Prerequisite:

This course is designed for the college-bound student who does not plan on majoring in a math based field. Statistics 1A covers such topics as: organizing data, averages and variations, elementary probability theory, binomial distributions, normal distributions, and introduction to sampling distributions.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Mathematics

**Course Codes:** 913515

CALPADS: 2498 - Other mathematics course

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## FINANCIAL ALGEBRA 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** C

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**Prerequisite:** Juniors who have completed Algebra 1B with a C or better and are concurrently enrolled in another math course may enroll in this course.

Stock Market, Modeling a Business, Banking Services, Consumer Credit, Automobile Ownership, Employment Basics, Income Taxes, Independent Living, Planning for Retirement, Prepare a Budget.

Notes: This course is available to any seniors who have completed Algebra 1B with a C or better.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Math-Algebra

**Course Codes:** 903011CR, 903011CR1, 903012CR, 903012CR2, 913011, 913012, 953011, 953012, 963011II, 963012II, 993011, 993012

CALPADS: 2485 - Financial Algebra

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## FINITE MATH 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** C

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### Prerequisite:

This year-long course in applied mathematics is designed for the college-bound student planning on majoring in a non-mathematical field. It is comparable to the Finite Mathematics courses taught at the college level. Finite Mathematics explores applications of math in Business, Economics, and the Life and Social Sciences. Topics explored will include Linear Equations and Inequalities, Functions, Systems of Linear Equations, Finance, Linear Programming, Logic, Probability, and Data Description.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Mathematics

**Course Codes:** 913517, 913518

CALPADS: 2498 - Other mathematics course

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## INTEGRATED MATH 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

### Prerequisite:

In this course, students will review, make connections, and further develop skills learned in middle school mathematics. The fundamental purpose of Mathematics I is to formalize and extend students' understanding of linear functions and their applications. The critical topics of study deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Mathematics I uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. This course will introduce students to theoretical knowledge as well as applications where they will be able to transfer their knowledge toward problem solving. Students who successfully complete this course will be enrolled in Integrated Mathematics II the following year.

### CTE:

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Algebra 1A, Algebra 1B, Math-Algebra, Mathematics

**Course Codes:** 903013, 903013CR, 903013CR1, 903013SS1, 903013SS2, 903014, 903014CR, 903014CR2, 903014SS1, 913013, 913013ADY, 913013STEM, 913013U, 913014, 913014ADY, 913014STEM, 913014U, 943519, 943520, 953013, 953013SS1, 953014, 953015, 953015SS1, 953016, 953016SS2, 953017, 953017SS1, 953018, 953018SS2, 953521, 963013, 963013II, 963014, 963014II, 963015, 963015II, 963015SS1, 963016, 963016II, 963016SS1, 963016SS2, 963017, 963017II, 963017SS1, 963018, 963018II, 963018SS2, 963520, 983013, 983014, 993013, 993014, AC3002

CALPADS: 2440 - Integrated Mathematics I - Common Core

## INTEGRATED MATH 1A-1B ENHANCED

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

### Prerequisite:

IN THIS COURSE, STUDENTS WILL REVIEW, MAKE CONNECTIONS, AND FURTHER DEVELOP SKILLS LEARNED IN MIDDLE SCHOOL MATHEMATICS. THE FUNDAMENTAL PURPOSE OF INTEGRATED MATHEMATICS I ENHANCED IS TO FORMALIZE AND EXTEND STUDENTS' UNDERSTANDING OF LINEAR FUNCTIONS AND THEIR APPLICATIONS. THE CRITICAL TOPICS OF STUDY DEEPEN AND EXTEND UNDERSTANDING OF LINEAR RELATIONSHIPS, IN PART BY CONTRASTING THEM WITH EXPONENTIAL PHENOMENA, AND IN PART BY APPLYING LINEAR MODELS TO DATA THAT EXHIBIT A LINEAR TREND. MATHEMATICS I USES PROPERTIES AND THEOREMS INVOLVING CONGRUENT FIGURES TO DEEPEN AND EXTEND UNDERSTANDING OF GEOMETRIC KNOWLEDGE FROM PRIOR GRADES. THIS COURSE WILL INTRODUCE STUDENTS TO THEORETICAL KNOWLEDGE AS WELL AS APPLICATIONS WHERE THEY WILL BE ABLE TO TRANSFER THEIR KNOWLEDGE TOWARD PROBLEM SOLVING. IN ADDITION MATRICES AND VECTORS WILL BE INTRODUCED. STUDENTS WHO SUCCESSFULLY COMPLETE THIS COURSE WILL BE ENROLLED IN INTEGRATED MATHEMATICS II ENHANCED THE FOLLOWING YEAR.

### CTE:

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

### Articulated Course:

**Grad Req:** Algebra 1A, Algebra 1B

**Course Codes:** 923013, 923013SK, 923014, 923014SK, 943013, 943014

CALPADS: 2440 - Integrated Mathematics I - Common Core



## INTEGRATED MATH 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** INTEGRATED MATH I

In this course, students will review, make connections, and further develop skills learned in Integrated Mathematics I. The fundamental topics of Mathematics II are: 1) expansion of real numbers including roots, radicals, and exponents; 2) polynomials including properties, components, and factoring; 3) quadratics including the formula, application, and introduction to the complex plane; 4) functions including tables, slopes, inverses, and exponential functions; 5) applications of probability; 6) Euclidean geometry including congruence and proof, similarity, circles, and coordinate geometry. Students who successfully complete this course will be enrolled in Integrated Mathematics III the following year.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 903519, 903519CR, 903519SS1, 903519SS2, 903520, 903520CR, 903520SS1, 903520SS2, 913519, 913519PR, 913519STEM, 913519U, 913520, 913520STEM, 953520SS2, 953521SS1, 953522SS2, 963521SS1, 993520, AC3502

CALPADS: 2441 - Integrated Mathematics II - Common Core

## INTEGRATED MATH 2A-2B ENHANCED

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** INTEGRATED MATH 1

In this course, students will review, make connections, and further develop skills learned in Integrated Mathematics I. The fundamental topics of Mathematics II are: 1) expansion of real numbers including roots, radicals, and exponents; 2) polynomials including properties, components, and factoring; 3) quadratics including the formula, application, and introduction to the complex plane; 4) functions including tables, slopes, inverses, and exponential functions; 5) applications of probability; 6) Euclidean geometry including congruence and proof, similarity, circles, and coordinate geometry. Enhanced topics include: complex plane, complex numbers, matrices, trigonometric functions and their graphs, and conics. Students who successfully complete this course will be enrolled in Integrated Mathematics III the following year.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:** N

**Grad Req:** Mathematics

**Course Codes:** 923519, 923519IB, 923519SK, 923519STEM, 923520, 923520IB, 923520SK, 923520STEM

CALPADS: 2441 - Integrated Mathematics II - Common Core

## INTEGRATED MATH 3A-3B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** Integrated Math 2

In this course, students will review, make connections, and further develop skills learned in Integrated Mathematics II. The fundamental topics of Mathematics III are: 1) functions and polynomials including division and the Factor Theorem; 2) sequences and series including Pascal's Triangle and the Binomial Theorem; 3) statistical inference including probability and decision-making and the normal distribution; 4) trigonometry including identities, graphs, and application to triangles; 5) complex numbers and polynomials including graphs, and application to triangles; 6) polynomial and rational functions including secants and tangents; 7) exponential and logarithmic functions including properties,  $e$ , and natural logarithms. Students who successfully completed this course will continue on to Pre-Calculus course.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 903521, 903521SS1, 903521SS2, 903522, 903522SS1, 903522SS2, 913521, 913521STEM, 913522, 913522STEM, 983521

CALPADS: 2442 - Integrated Mathematics III - Common Core

## INTEGRATED MATH 3A-3B ENHANCED

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** INTEGRATED MATH 2

In this course, students will review, make connections, and further develop skills learned in Integrated Mathematics II. The fundamental topics of Mathematics III are: 1) functions and polynomials including division and the Factor Theorem; 2) sequences and series including Pascal's Triangle and the Binomial Theorem; 3) statistical inference including probability and decision-making and the normal distribution; 4) trigonometry including identities, graphs, and application to triangles; 5) complex numbers and polynomials including graphs, and application to triangles; 6) polynomial and rational functions including secants and tangents; 7) exponential and logarithmic functions including properties,  $e$ , and natural logarithms. The enhanced topics include learning the trigonometric function of tangent and the three reciprocal functions secant, cosecant, and cotangent. Enhanced students will build and prove trigonometric formulas and identities. Students who successfully completed this course, as well as, Integrated Math II Enhanced, and Integrated Math I Enhanced will have completed sufficient Pre-Calculus curriculum in order to move onto Calculus and/or Statistics.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:** N

**Grad Req:** Mathematics

**Course Codes:** 923521, 923521STEM, 923522, 923522STEM

CALPADS: 2442 - Integrated Mathematics III - Common Core

## MATH REASONING WITH CONNECTIONS 1A-1B

**Grades:** 12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** RECOMMENDED PREREQUISITE Integrated Math 3

MRWC (Math Reasoning With Connections) is a new fourth year mathematics course designed to prepare students for the expectations and rigor of college mathematics courses. It reinforces and builds on mathematical topics and skills developed in Integrated 1-3 (or Algebra 1-2 and Geometry). It is designed as a pathway to both STEM and non-STEM majors. MRWC uses an instructional approach emphasizing collaborative exploration of rich mathematics. Through innovative activities and engagement with technology, MRWC supports diverse learning styles and develops skills needed for success in college and in the workforce.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 913527, 913528

CALPADS: 2498 - Other mathematics course

## MATH STANDARDS MASTERY

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:** Failure to pass the Math section of the California High School Exit Exam

This course is designed to provide review and remediation for students who have not yet passed the mathematics portion of the California High School Exit Exam (CAHSEE). Standards emphasized in the course are those tested on the CAHSEE as listed below. Geometry concepts are introduced in an informal and discovery approach for developing geometric skills that complement the mastery standards and prepares students for success in Geometry 1A-1B. This course earns math credit towards graduation and may be repeated for duplicate credit as elective credits.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives, Mathematics

**Course Codes:** 903501, 903501CR, 903501SS1, 903501SS2, 909181, 909181S, 909181SS1, 909181SS2, 913501, 913501S, 919181F, 919181FA, 919181FB, 919181U, 919181UA, 953501, 953501S, 959181, 959181S, 963501, 963501II, 963501S, 963501SS1, 969181, 969181S, 993501

CALPADS: 2402 - Remedial math/proficiency development

## PRE-CALCULUS 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** "C" or better in Algebra 2B

This course is designed for the college-bound student who plans to major in economics, business, psychology, or any other math related field. Pre-Calculus 1A-1B is a study of the prerequisite skills to a calculus course and an extension of the concepts covered in Algebra 2 with an emphasis including trigonometry and functions, their applications, and the use of the graphic calculator. Pre-Calculus 1A-1B covers such topics as: review of algebra, functions and graphs, intercepts, zeros and solutions, polynomial and rational functions, exponential and logarithmic functions, the unit circle, trigonometric functions applied to right triangles, graphs of trigonometric functions, applications of trigonometry, oblique triangles, verifying identities, solving trigonometric equations, linear models and systems of equations, matrices and determinants, sequences, conics, and vectors.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 903511, 903512, 913511, 913512

CALPADS: 2444 - PreCalculus - Common Core

## PRE-CALCULUS 1A-1B HONORS

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** "B" or better in Algebra 2B or "C" or better in Algebra 2B Honors

This course is designed for the college-bound student who plans to major in the sciences, architecture, engineering, computer science, mathematics, economics, business, psychology, or any math related field. Pre-Calculus 1A-1B Honors is an in-depth study of the prerequisite skills to a college level calculus course including an extension of the concepts covered in Algebra 2 with an emphasis on trigonometry and functions, their applications. Graphing calculators and their applications will be emphasized. Pre-Calculus 1A-1B Honors covers advanced topics in the areas of: review of algebra, functions and graphs, intercepts, zeros and solutions, polynomial and rational functions, exponential and logarithmic functions, the unit circle, trigonometric functions applied to right triangles, graphs of trigonometric functions, applications of trigonometry, oblique triangles, verifying identities, solving trigonometric equations, linear models and systems of equations, matrices and determinants, sequences, probability and statistics, conics, parametric equations, polar coordinates, vectors, limits, tangent lines, and area.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 923511, 923511A, 923511IB, 923512, 923512A, 923512IB, 943511, 943512

CALPADS: 2444 - PreCalculus - Common Core

## STATISTICS 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** "C" or better in Algebra 2B or Algebra 2B Honors

This course is designed for the college-bound student who does not plan on majoring in a math based field. Probability and Statistics covers such topics as: organizing data, averages and variations, elementary probability theory, binomial distributions, normal distributions, and introduction to sampling distributions.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 913509, 913509SP, 913510, 913510SP

CALPADS: 2445 - Statistics and Probability - Common Core

## TRIGONOMETRY

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

**Prerequisite:**

This semester-long course is designed for the college-bound student planning on majoring in a non-mathematical field. It is comparable to the Trigonometry courses taught at the college level. Trigonometry 1AB will cover such topics as Angles, Triangles, Radian Measure, Identities, Vectors, Complex Numbers, and Trigonometric, Circular, Exponential, and Logarithmic Functions.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 913516

CALPADS: 2498 - Other mathematics course

## TRIGONOMETRY 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** C

**Prerequisite:** Completed Algebra 2

This is an excellent option for students who have completed Algebra 2 but who do not want to go on to Pre-Calculus. This course is especially designed to help students increase performance on the SAT and add an additional Math course to their transcript beyond Algebra 2 which should increase their probability of admission to college.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Mathematics

**Course Codes:** 913507, 913508

CALPADS: 2407 - Trigonometry

## Non-Departmental

### COMMUNITY 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Enrolled in the SH-SDC/Life Skills Program with a current I.E.P.

This Course is designed to prepare the student to access and use community environments as independently and completely as possible. Instruction in the areas of shopping, travel, eating out, and use of public services are included. Goal areas include, but are not limited to, restaurant behavior, use of phone, socially appropriate behavior and social procedures, selecting and requesting menu choices, use of telephone, appropriate social interactions, sharing personal data, personal space, awareness of public transportation, identify functions of a business, and use of an elevator or an escalator appropriately. This course is designed for students enrolled in the SH-SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who have a current I.E.P.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970013LS, 970014LS

CALPADS: 6098 - Other instruction-related assignment

### COMMUNITY 2A-2B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Enrolled in the SH-SDC/Life Skills Transition Program with a current I.E.P.

This course is designed to prepare the student to access and use community environments as independently and completely as possible. Instruction in the areas of shopping, travel, eating out, and use of public services are included. Goal areas include, but are not limited to, appropriate manners and behavior in restaurants, ordering and purchasing, using public telephones, using appropriate buss pass I.D. and California I.D., personal safety and street safety, using arcades and vending machines, recognizing different types of transportation, locating important critical businesses, finding stores in the mall, and understanding family relationships. This course is designed for students enrolled in the Transition SH/SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who have current I.E.P.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970015LS, 970016LS

CALPADS: 6098 - Other instruction-related assignment

## COMPUTER LITERACY 1

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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### Prerequisite:

This course is designed to bring students to a basic level of proficiency in applying computer technology in the educational setting. Emphasis will be placed on filemanagement and appropriate technology use in a network environment. Students will be introduced to fundamental computer concepts, beginning keyboarding skills, word processing, multi-media presentations, internet applications, and spreadsheets. Special attention will be devoted to legal issues, copyright law, and safety. Application of technology in the workplace will be emphasized.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Business

**Course Codes:** 959198, 969198

CALPADS: 1000 - Self-Contained Class

## COMPUTER LITERACY 2

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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### Prerequisite:

This course builds on the computer literacy skills that were introduced in Computer Literacy 1. Students will problem solve and create word processing documents, spreadsheets and databases. Students will become familiar with digital media and create a graphic presentation related to an occupational application of choice.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Business

**Course Codes:** 959199, 969199

CALPADS: 1000 - Self-Contained Class

## EXCEL

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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### Prerequisite: None

This course is designed to aid 9th through 12th graders to be successful in high school through the development of study skills, an orientation to school resources, and the development of "life skills" which include: academic planning, goal-setting, problem-solving skills, self-awareness, career exploration, communication, interpersonal skills, and a hands-on class with many varieties of experiences and guest speakers. This course is also designed to improve collaborative problem solving and individual writing skills. Students will be focused on performance outcomes. Time management skills are emphasized. Maintenance of a three-ring binder notebook for assignments and class notes for all courses in which students are currently enrolled is required. This course may be repeated for duplicate credit.

### CTE:

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 909194, 919194, 919194S, 959194, 969194, 969194II

CALPADS: 6001 - Skills center/study skills

## FUNCTIONAL ACADEMICS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Enrolled in the SH-SDC/ Life Skills Program with a current I.E.P.

This course is designed to increase academic skills necessary to participate in everyday life with goals for maximum independence. To be functional, these skills must be related to some real activity that the student encounters in daily living. Functional academics skills are learned and applied in a variety of environments. Instruction occurs in both classroom and community settings. Goals include, but not limited to, using recipes, name recognition and writing, story recall, alphabet recognition, time/clock skills, identification and counting money, increasing expressive vocabulary and functional safety skills, accessing a library, computer operation and use, writing letters and numbers, calendar skills, calculator skills, number identification, addition and subtraction, and asking and answering questions and increasing receptive vocabulary.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970001LS, 970001SS1, 970002LS

CALPADS: 6098 - Other instruction-related assignment

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## FUNCTIONAL ACADEMICS 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Enrolled in the SH-SDC/ Life Enrolled in the SH-SDC/ Life with a current I.E.P.

This course is designed to increase academic skills necessary to participate in everyday life with goals for maximum independence. To be functional, these skills must be related to some real activity that the student encounters in daily living. Functional academics skills are learned and applied in a variety of environments. Instruction occurs in both classroom and community settings. Goal areas include, but are not limited to, using and comprehending recipes, communicating and writing personal information, verbalizing sequences. Reading functional words, telling time to follow a schedule, using money to make purchases, increase expressive vocabulary, functional safety, loaning library books, improving writing skills, writing simple correspondence and keeping a journal.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970003LS, 970004LS

CALPADS: 6098 - Other instruction-related assignment

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## HOME ROOM

**Grades:** 09-12

**Duration:** Year

**Credits:**

**UC/CSU:** None

**Prerequisite:** None

This course is designed to assist students in grades 9th through 12th with connecting to high school through building relationships with other students and with faculty and to focus on building skills that will help make them successful in high school and beyond. The class will concentrate on attachment (to other students, staff, and school) achievement (items related to academic success) and awareness (of self and others, and life issues.)

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919001, 919002, 919003, 919004, 919005

CALPADS: 6002 - Homeroom, study hall

## INDEPENDENT LIVING SKILLS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Enrolled in the SH-SDC/Life Skills Program with a current I.E.P.

This course is designed to enable students to engage in constructive and personally satisfying leisure activities in school, home and the community. Goal areas include, but are not limited to, use functional vocabulary, develop functional social skills, play computer games, utilize community services use of audio and visual equipment, accept praise or criticism during games, use phone for conversation, social skill: interaction with peers, show knowledge of sports and game rules and choose free-time activities. This course is designed for students enrolled in the SH-SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who have a current I.E.P.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970017LS, 970018LS

CALPADS: 6098 - Other instruction-related assignment

## INDEPENDENT LIVING SKILLS 2A-2B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Enrolled in the SH-SDC/Life Skills Transition Program with a current I.E.P.

This course is designed to prepare the student to become as independent as possible in his/her living environment. Included in instruction is personal care, food preparation, and housekeeping skills. Goal areas include, but are not limited to, personal grooming and hygiene, dressing for the occasion, select, purchase, care, wear, and clean clothes(including hand-washing), selection/purchase/preparation of food, home maintenance, cook a meal with kitchen appliances, use a daily schedule and daily management. This course is designed for students enrolled in the Transition SH/SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who have current I.E.P.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970019LS, 970020LS

CALPADS: 6098 - Other instruction-related assignment

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## LEADERSHIP 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** Election or appointment to an ASB or class office or instructor approval

This course emphasizes transacting business, managing finances, planning activities, formulating regulations, and governing the affairs of ASB. Students are taught various leadership skills and basic parliamentary procedures. These skills are practiced through participation in the planning and governing of the ASB Activities Program. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919031, 919032

CALPADS: 2719 - Student government

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## ON YOUR OWN

**Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** Signed parent permission

This course is designed to prepare students to live "on their own" after leaving school. Emphasis is on decision making as it relates to single living and consumer issues. Studies will include the process of renting, securing a job, establishing a budget, and obtaining credit. The course includes personal relations, marriage and family living. Credit will be earned from written assignments, class participation, tests, and out-of-class projects.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Family and Consumer Science

**Course Codes:** 909136CR, 919136, 999136

CALPADS: 7520 - Intermediate Consumer Services (Concentrato

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## PRE-VOCATIONAL EDUCATION 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Enrolled in the SH-SDC Life Skills Program with a current I.E.P.

This course is designed to introduce high school aged life skills students to skills needed to make a successful matriculation into one of our district transition programs. Goal areas include, but are not limited to, exposure to some pre-vocational areas that will be measured throughout the year, such as in seat behavior, on task attention span, following single and multi-stepped directions, appropriate contacts with supervisors (teaching staff), following safety rules, peer interaction skills, self help skills, career exploration in classroom, complete tasks independently and develop self-control of attitude, exposure to measured areas such as in class endurance, in class independence, in class production and group situation learning behaviors and learning styles (peer modeling, teacher modeling, etc.) immediacy and approximation of compliance to instruction (verbal and non-verbal), conducting a personal inventory, developing social exchanges, and exploring a variety of interests and values. This course is designed for students enrolled in the SH-SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who a current I.E.P.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970009LS, 970010LS

CALPADS: 6098 - Other instruction-related assignment

## RECREATION, LEISURE & FITNESS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Enrolled in the SH-SDC/Enrolled in the SH-SDC/ Life Skills Program with a current I.E.P.

This course is designed to enable students to engage in constructive and personally satisfying leisure activities in school, home and the community. Goal areas include, but are not limited to, social interaction, group games, hobbies and personal interests, participation in school activities, and use of appropriate communication for activities, develop friendships, play indoor activities, express choice of activities. This course is designed for students enrolled in the SH-SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who have a current I.E.P.

Notes: 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970005LS, 970006LS

CALPADS: 6098 - Other instruction-related assignment

## RECREATION, LEISURE & FITNESS 2A-2B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Enrolled in the SH-SDC/ Life Skills Transition Program with a current I.E.P.

This course is designed to enable students to engage in constructive and personally satisfying leisure activities in school, home and the community. Goal areas include, but not limited to, develop hobbies and personal interests, participate in school functions and extra-curricular activities, use vocabulary appropriate for activity, responds to and uses humor appropriately, awareness of community group, operate VCR, DVD player, camera and computer, physical fitness: sets personal goals, identify feelings and emotions and demonstrate sportsmanship and manners. This course is designed for students enrolled in the Transition SH/SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who have current I.E.P.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970007LS, 970008LS

CALPADS: 6098 - Other instruction-related assignment

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## VOCATIONAL EDUCATION 2A-2B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Enrolled in the SH-SDC Life Skills Transition Program with a current I.E.P.

This course is designed to measure applied vocational skills reviews in pre-vocational education courses in our district. Students will review areas of need in order to complete a successful promotion into a transition program. Goal areas include, but are not limited to, ADA Certification, access to a current California I.D. card, current address, exposure to public transportation mobility training in our local community, introduction and expansion of needed skills required to gain access to a Work Ability 1 training position, career exposure, extended independent work skills, develop ability to accept criticism, taking job interest inventories, developing casual conversation skills, developing job recognizing quality work and self correction, increasing skills in the areas of vocational endurance at a Work Ability 1 job training site, refining mobility skills needed to gain access to our local community, demonstrating skills required to maintain good job standing being prompt, accepting constructive criticism, making necessary behavior changes when needed, dressing appropriately for work, demonstrating appropriate grooming skills needed for public job placement, using a watch/clock to tell time, showing knowledge of chain of command, receiving and delivering messages, developing personal insight, expressing want, needs and information, exhibiting ethical standards on the job planning and completing graduation requirements and carrying and showing I.D. This course is designed for students enrolled in the Transition SH/SDC/Life Skills (Severely Handicapped-Special Day Class/Life Skills) program who have current I.E.P.

Notes: Grade Range 18+/Transition. Pass/No Pass

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 970011LS, 970012LS

CALPADS: 6098 - Other instruction-related assignment

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## CAREER AWARENESS

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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### Prerequisite:

The focus of this class is to help students learn pre-employment skills, communication skills, transferrable basic academic skills, and employment skills. In addition, students will be able to explore careers through research, tours, and guest speakers. The curriculum has been developed from a combination of that taught in the Transition Partnership Program Jobs class and the former Pathways Program, as well as the Career Cruising program. The goal is to help students to be hireable and be able to make informed, critical decisions about their post-secondary options.

### CTE:

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 958019, 959200, 969200

CALPADS: 2722 - Career education

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## COLLEGE & CAREER SEMINAR

**Grades:** 09-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** G

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### Prerequisite:

College and Career Seminar is an elective course for high school students. This course is designed to help students foster academic success in their high school years and to aid in successfully reaching life goals set by the individual student. This course introduces students to a decision-making process that will help them envision and plan for a future career that is productive, achievable, and stimulating. This personalized 10 year plan provides students with the focus and intrinsic motivation to succeed in high school, college, at work and in life.

This course is designed to help students learn and practice valuable skills to help them to be career and college ready. Students will demonstrate their understanding of career paths through a variety of assessments, projects, job simulations, speeches, research assignments, online portfolio, and a research paper. Students will identify academic interests, skills, values and personality types, research employers and industries, gain experience with public speaking and interview skills, familiarize themselves with college and job search tools, strengthen writing skills, learn goal setting, solidify research techniques, and write a research paper utilizing correct MLA format.

### CTE:

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

### Articulated Course:

**Grad Req:** Electives

**Course Codes:** 919079

CALPADS: 6098 - Other instruction-related assignment

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**COLLEGE COURSE****Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None**Prerequisite:** None

This course provides students with the opportunity to take a college course in the 11th and 12th grade and receive high school elective credit. Students interested in this option should see their high school counselor for further information.

**CTE:**INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919071, 919072

CALPADS: 6098 - Other instruction-related assignment

**LEADERSHIP ETHNIC ADVISORY 1A-1B****Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None**Prerequisite:**

The Ethnic Advisory Council (EAC) is part of the Associated Student Body leadership core on campus and has the specific responsibility of exposing the campus to the wonders and excitement of culture, as well as being a service group. EAC is dedicated to hosting a yearly Multicultural assembly as well as to organizing campus-wide cultural activities and blood drives.

**CTE:**INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919029, 919030

CALPADS: 2719 - Student government

**LINK CREW 1A-1B****Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G**Prerequisite:** 2.0 GPA, Counselor/Teacher Recommendation

Link Crew is a high school orientation and transition program that increases freshman success. Members of the sophomore, junior and senior class are trained to be Link Crew Leaders who act as positive role models, motivators, student mentors and teachers helping guide the freshmen to discover what it takes to be successful during their high school transition. As freshman success increases, the benefits to the school climate and culture become apparent; Link Crew schools report having greater student connection, increased extracurricular participation, fewer discipline issues and improved academic performance. Link Crew schools value the service-learning and character development achieved through this proven high school orientation program.

**CTE:**INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919027, 919028

CALPADS: 6098 - Other instruction-related assignment

**PEER COUNSELING 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** Instructor approval and parent permission letter

This course is divided into two major training areas which include the learning of peer counseling skills and the discussion of teen issues. The first part covers communication, decision-making, and counseling skills. Clarification of issues and applied skills are the focus of the second part of the course. The students are led into an examination of their values in the areas of adolescent stress, chemical dependency, death, depression, family, loss, peer pressure, school-related issues, sexuality and suicide. Special expectations for this course include a parent permission letter and a student code of conduct signed by the student and a parent.

**CTE:**INDUSTRY SECTOR: NonePATHWAY: NoneCOURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919035, 919036

CALPADS: 2536 - Peer counseling/conflict management

**PEER COUNSELING 2A-2B****Grades:** 10-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** Successful completion of Peer Counseling 1A-1B, instructor approval and parent permission letter

This course provides students with the opportunity to apply the skills acquired in Peer Counseling 1A-1B. Students will assist other students through conflict mediation and peer counseling sessions. Students will be expected to research and give presentations on teen issues for appropriate classes and community forums. In addition, there will be opportunities for career exploration and community service. Students must be committed to a student code of ethics.

This course may be repeated for duplicate credit.

**CTE:**INDUSTRY SECTOR: NonePATHWAY: NoneCOURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919037, 919038

CALPADS: 2536 - Peer counseling/conflict management

## RENAISSANCE 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Application, Interviewed and teacher recommended

The focus of this course is the development of student leadership skills through practical experiences that include communication, service learning, government, personal and social development and business skills. Through teamwork students set goals, coordinate committees, and create and implement programs to recognize student achievement. The Renaissance Leadership program is designed to promote and encourage academic excellence and leadership, unity amongst students and faculty, school spirit, and exemplarily models of citizenship. Renaissance students will be positive role models and display the expectations of all high school students. As mentors, leaders, and motivators they will guide students on campus on what it takes to be successful throughout their academic career.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919025, 919026

CALPADS: 6098 - Other instruction-related assignment

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## SUCCESS FOR HIGH SCHOOL

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course is designed to aid students to be successful in high school by: development of study skills; an orientation to school resources; and development of "life skills;" academic exploration; communication and interpersonal skills. It is a hands-on class with many varieties of experiences and guest speakers. Time management skills are also emphasized.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 909192, 919192F, 919192FA, 919192FB, 919192S, 919192UA, 919192UB, 919192W, 919193F, 919193S, 959192

CALPADS: 6098 - Other instruction-related assignment

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**UNITY 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** G**Prerequisite:**

UNITY is a class that assists in bringing individuals from different backgrounds and experiences together through understanding, not by judgment and/or discrimination, but by celebrating our differences.

UNITY encourages individuals to feel comfortable with their own backgrounds along with understanding the struggles and concerns of others.

We strive to show that no matter what you are going through, you are never alone. There are undeniable issues in our society that we wish not to solve, but to bring to the surface and raise awareness for. Hopefully, over time, we can change the flaws that exist in our community. It all starts with a little open-mindedness and willingness to recognize our weaknesses and address them face to face. Every person is entitled to dignity and respect, regardless of their social standing, race, background, gender, age or sexual orientation. UNITY represents this statement, and it is our goal to bring it to the attention of others.

Notes: This course requires that students keep grades at a 2.0 minimum, are willing to miss class a few times a semester, can commit to spending some time outside of school to get things done and are responsible.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:****Grad Req:** Electives**Course Codes:** 919023, 919024

CALPADS: 6098 - Other instruction-related assignment
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**Air Science****AIR SCIENCE 4A-4B****Grades:** 10-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** Air Science 3A-3B

The fourth year curriculum is unique from the others. The senior aerospace science instructors may choose which option they would like to incorporate for that year. The option includes the management of the cadet corps allowing the cadets to manage the entire corps during the fourth year. This hands-on experience affords the cadet the opportunity to put theories of previous leadership coursed into practice.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:****Grad Req:** Electives**Course Codes:** 919165, 919166

CALPADS: 2505 - Leadership/Military science
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**AIR SCIENCE AVIATION HISTORY 1A-1B - AFJROTC****Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None**Prerequisite:** None

The purpose of this first year course is to acquaint the student with historical development of flight and the role of the military in history. About three-quarters of the available classroom hours are spent reviewing the development of flight from ancient legends through the Persian Gulf War and beyond. Additionally, the role of the military throughout the history of the United States is identified.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Physical Education**Course Codes:** 917008, 917009

CALPADS: 2505 - Leadership/Military science

**AIR SCIENCE OF FLIGHT 2A-2B - AFJROTC****Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None**Prerequisite:** Air Science 1A-1B

The purpose of this second year course is to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and the weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, and the effects of wind. The portion on the Human Requirements of Flight is a survey course on human physiology. Discussed here are the human circulatory system, the effects of acceleration and deceleration, and protective equipment.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Physical Education**Course Codes:** 917010, 917011

CALPADS: 2505 - Leadership/Military science

**AIR SCIENCE SPACE EXPLORATION C 3A-3B****Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None**Prerequisite:** Air Science 2A-2B

The purpose of the this third year course is to examine our Earth, the Moon and the planets, the latest advance in space technology, and continuing challenges of space and manned spaceflight. Issues critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, space probes, guidance and control systems are explained. The manned spaceflight section covers major milestones in the endeavor to land on the Moon, and to the development of space stations, the Space Shuttle and its future, and international laws for the use of travel in space.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919163, 919164

CALPADS: 2505 - Leadership/Military science

## AVID

### AVID 10A-10B

**Grades:** 10      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** Instructor approval and enrollment in University of California a-g course sequence

This course is an elective course in which students are tutored in all academic areas by college students both individually and in small groups. Advancement Via Individual Determination (A.V.I.D.) teaching methods and materials are used. Students are helped to see themselves as potential college students and helped to master the skills necessary to meet all requirements for admission to college.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives, Health

**Course Codes:** 919013, 919013H, 919013Z, 919014, 919014H, 919014Z

CALPADS: 6023 - AVID

### AVID 11A-11B

**Grades:** 11      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** Instructor approval and enrollment in University of California a-g course sequence

This course is an elective course in which students are tutored in all academic areas by college students both individually and in small groups. Advancement Via Individual Determination (A.V.I.D.) teaching methods and materials are used. Students are helped to see themselves as potential college students and helped to master the skills necessary to meet all requirements for admission to college.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919015, 919015Z, 919016, 919016Z

CALPADS: 6023 - AVID

### AVID 12A-12B

**Grades:** 12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor approval and enrollment in University of California a-g course sequence

This course is an elective course in which students are tutored in all academic areas by college students both individually and in small groups. Advancement Via Individual Determination (A.V.I.D.) teaching methods and materials are used. Students are helped to see themselves as potential college students and helped to master the skills necessary to meet all requirements for admission to college.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919017, 919017Z, 919018, 919018Z

CALPADS: 6023 - AVID

**AVID 9A-9B****Grades:** 9**Duration:** Year**Credits:** 10 Credits**UC/CSU:** G**Prerequisite:** Instructor approval and enrollment in University of California a-g course sequence

This course is an elective course in which students are tutored in all academic areas by college students both individually and in small groups. Advancement Via Individual Determination (A.V.I.D.) teaching methods and materials are used. Students are helped to see themselves as potential college students and helped to master the skills necessary to meet all requirements for admission to college.

**CTE:****INDUSTRY SECTOR:** None    **PATHWAY:** None    **COURSE SEQ:** None**Articulated Course:****Grad Req:** Electives, Health**Course Codes:** 919011, 919011H, 919011Z, 919012, 919012H, 919012Z

CALPADS: 6023 - AVID

**AVID SENIOR SEMINAR 4A-4B****Grades:** 12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** G**Prerequisite:** Previous enrollment in AVID lower-level courses for three years. Enrollment in at least one Honors, Advanced Placement, or International Baccalaureate course.

The AVID Senior Seminar is the culmination of a student's years in the AVID program, and the course involves substantial critical reading and writing, preparation to external exams, such as Advanced Placement and International Baccalaureate, and weekly Socratic seminars. Students enrolled in the Senior Seminar are required to complete weekly timed writings and analytical discourses in subjects across the curriculum. In addition, students are required to make oral presentations to the class on topics related to college entrance, contemporary issues, and social concerns. As with all AVID courses, the Senior Seminar features tutors-college students who lead discussions and analysis of the academic subjects in which the students are enrolled. Senior Seminar students, working with the tutors, are expected to participate in and eventually act as moderators in Socratic Seminars. These discussions move beyond didactic instruction and assist students in gaining multiple perspectives on texts, supporting arguments with clear reasoning and evidence, and developing their critical thinking skills to the degree necessary for success in college.

**CTE:****INDUSTRY SECTOR:** None    **PATHWAY:** None    **COURSE SEQ:** None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919019, 919019Z, 919020, 919020Z

CALPADS: 6023 - AVID

## AVID TUTOR 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Teacher/ AVID Coordinator Approval

This course is an elective course in which students are tutored in all academic areas by college students both individually and in small groups. Advancement Via Individual Determination (A.V.I.D.) teaching methods and materials are used. Students are helped to see themselves as potential college students and helped to master the skills necessary to meet all requirements for admission to college.

Notes: This course was designed to support the Advancement Via Individual Determination (AVID) curriculum.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919021, 919021Z, 919022, 919022Z

CALPADS: 6023 - AVID

## Naval Science

### NAVAL SCIENCE 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

The purpose of this course is to provide a sound understanding of Military Drill and Ceremonies, uniform regulations, and physical fitness. This course defines the importance of attention to detail and of maintaining physical and mental well being. Students learn the Core Values of HONOR, COURAGE, and COMMITMENT, habits of precision, self-confidence, and basic leadership. This one-year course meets Physical Education or elective credit.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives, Physical Education

**Course Codes:** 917041, 917042, 919075, 919076

CALPADS: 2505 - Leadership/Military science

### NAVAL SCIENCE 2A -2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Naval Science 1A-1B

The purpose of this course is to engender a sound appreciation for the heritage and traditions of America, with recognition that the historically significant role of sea power will be important in America's future. This course is designed to develop in each student a growing sense of pride in his/her organization, associates and self. These elements are pursued at a fundamental level. This course meets the high school Physical Education graduation requirement.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives, Physical Education

**Course Codes:** 917043, 917044, 919077, 919078, 919167, 919168

CALPADS: 2505 - Leadership/Military science

**NAVAL SCIENCE 3A-3B****Grades:** 11-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** Naval Science 2A-2B

The purpose of this course is to further develop the understanding and importance of sea power and national security, naval operations and support functions, military law, international law and the sea. This one-year course meets Physical Education or elective credit.

**CTE:**INDUSTRY SECTOR: NonePATHWAY: NoneCOURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919169, 919170

CALPADS: 2505 - Leadership/Military science

**NAVAL SCIENCE 4A-4B****Grades:** 12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** Naval Science 3A-3B

The purpose of this course is to develop an understanding of the fundamentals of leadership, group dynamics, human motivation, the NJROTC Program, and the cadets' role in unit and platoon management. This one-year course meets Physical Education or elective credit.

**CTE:**INDUSTRY SECTOR: NonePATHWAY: NoneCOURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 919171, 919172

CALPADS: 2505 - Leadership/Military science

## **Physical Education Department**

### **ADVANCED PHYSICAL EDUCATION - ATHLETICS 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor approval

This course is specifically designed for students involved in interscholastic athletics. Individual and team achievement provide the focus of instruction. Opportunities for individual skill development are presented in the context of team goals. This course may be repeated for duplicate credit.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Education

**Course Codes:** 917004, 917005, 917006, 917007, 917012, 917013, 917014, 917015, 917016, 917017, 917018, 917019, 917020, 917021, 917024, 917025, 917026, 917027, 917028, 917029, 917030, 917031, 917032, 917033, 917034, 917035, 917049, 917050, 917051, 917052, 917053, 917054, 917055, 917056, 917057, 917058, 917059, 917060, 917061, 917062, 917063, 917064, 917065, 917066, 917067, 917068, 917069, 917070, 917071, 917072, 917073, 917074, 917075, 917076, 917079, 917080

CALPADS: 2512 - Elective Physical Education Other

### **INTRODUCTORY PHYSICAL EDUCATION 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course is a beginning course in physical education at the high school level. It is a required course for all students except those enrolled in Advanced Physical Education/Athletics.

The curriculum emphasizes the development of body and mind. Cooperation and sportsmanship are stressed in activities. Individual and team games provide the avenue for skill development. Game rules and basic strategies are presented to encourage students to improve individual and team performance.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Education

**Course Codes:** 907000F, 907001F, 917000F, 917000IB, 917001F, 917001IB, 947000F, 947001F, 977000FLS, 977001FLS

CALPADS: 2514 - High School Physical Education I

## MODIFIED PHYSICAL EDUCATION 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** None

This course is designed for individuals with exceptional needs, who are precluded from participation in some or all activities of the regular Physical Education programs, due to a variety of physical conditions or other health impairments.

Following is a list of some, but not limited to, conditions that might qualify an individual with exceptional needs for the Modified Physical Education program.

Respiratory Conditions - Asthma  
Orthopedic Conditions - Limited C.P. - mild or moderate - clubfoot  
Overweight (Obesity)  
Underweight  
Cardiac Condition - Rheumatic Fever  
Postural Difficulties - Scoliosis  
Diabetes  
Epilepsy  
Deafness  
Visual Limitation  
Behavioral Disorders - Hyperactivity, Impulsiveness, Catastrophic Reaction  
Low score on physical performance (below 30 percentile)

- Poor physical efficiency
- Poor basic motor control
- Poor basic motor skill patterns
- Poor basic play and skill activities

The class is conducted by a regular Physical Education teacher with ongoing consultation with an Adapted Physical Education specialist. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Education

**Course Codes:** 917039, 917040

CALPADS: 2516 - Modified or Specially Designed Physical Edu



**OFF-CAMPUS INDEPENDENT PHYSICAL  
EDUCATION 1A-1B**

**Grades:** 9-10      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** All the conditions and guidelines of Off Campus Independent Physical Education must be met before enrollment in this course

This course is designed for students who have developed a special interest and/or talent in area of physical education outside the regular school program. Students enrolling in this course must be classified as a competitor at the State, National or Junior National level in their special area of interest and/or talent and must follow specific district guidelines and procedures. This course may be repeated for duplicate credit.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Education

**Course Codes:** 917036, 917037, 917045, 917046

CALPADS: 2512 - Elective Physical Education Other

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**PHYSICAL EDUCATION - MARCHING BAND**

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None - Offered fall semester only

This course is designed to provide instruction for all marching units, including band, tall flags, drill team, and color guard with an emphasis on the fitness of the body and the mind. Cooperation and teamwork are stressed in all performances and activities.

During the fall semester, precision drills and marching routines are covered with special emphasis on half-time and parade routines. This class is intended to include all members of the marching band program and marching groups.

Rehearsals and performances outside the regular school day are scheduled. This course may be repeated for a total of 20 credits and can be used to fulfill the high school Physical Education requirement for graduation. This course may be repeated for duplicate credit.

Notes: This course may be repeated for a total of 20 credits.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Education

**Course Codes:** 917038

CALPADS: 2512 - Elective Physical Education Other

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## PHYSICAL EDUCATION 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Introductory Physical Education

This course emphasizes physical activities which are conducive to health and vigor of body and mind. Activities are organized to help the student gain and maintain maximum physical fitness and to acquire and/or maintain skills which are applicable to sports and recreational activities.

The course enables students to increase their knowledge of sports. It develops their skills and stresses strategies in these sports. Students receive instruction relating to health, safety, and accepted social behavior.

Students will select team or individual sports/activities to accomplish course goals. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Education

**Course Codes:** 907002, 907002SS1, 907002SS2, 907003, 917002, 917002CR1, 917002CR2, 917002IB, 917002L, 917002W, 917002Y, 917002Z, 917003, 917003IB, 917003W, 917003Y, 917003Z, 947002, 947003, 977002LS, 977003LS, 997000

CALPADS: 2515 - High School Physical Education II

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## PHYSICAL EDUCATION FOR LIFETIME ACTIVITY

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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**Prerequisite:** Introductory Physical Education

This course emphasizes physical activities that promote a lifetime of physical, mental, and social wellness. Activities are organized to help the students participate in and gain the knowledge needed to develop a lifetime of physical recreation and fitness and will focus primarily on individual, duo, and small team activities

Students will be exposed to different factors and considerations including the needs of contemporary society, the interests of the learner, health needs, sports skills, stress diversion, personality and attitudes, financial considerations, availability of facilities and environmental considerations. Activities chosen will show students how to be motivated and self-directed participators for life. This course may be repeated for duplicate credit.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Education

**Course Codes:** 917047, 917048

CALPADS: 2515 - High School Physical Education II

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## **Public Services Department**

### **CTE CORRECTIONAL SCIENCE**

**Grades:** 11-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:**

This course is designed to prepare students for entry-level employment in protective services through classroom instruction and hands-on training that focuses on ensuring the general safety and well-being of the community. Course content includes an overview and history of the corrections system, punishment of offenders, detention and short-term incarceration, probation, intermediate sanctions and community corrections, institutional management and programs, supervision within the community, juvenile corrections, surveillance, justice, and force.

**CTE:**

INDUSTRY SECTOR: Public Services      PATHWAY: Public Safety      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Public Safety & Driver Ed/Tng

**Course Codes:** 919361X

CALPADS: 8411 - Intermediate Public Safety (Concentrator)

### **FIRST RESPONDER 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

---

**Prerequisite:**

This class will teach students to provide immediate care to an ill or injured person and train them to assist emergency medical services (EMS) providers. Instructional content area skills include the history of health care, EMS overview, CPR and first aid skills, patient assessment, legal and ethical issues, and triage and emergency responsibilities.

**CTE:**

INDUSTRY SECTOR: Health Science and Medical Technology      PATHWAY: Patient Care      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919351X, 919352X

CALPADS: 7922 - Advanced Patient Care (Capstone)

### **FORENSIC SCIENCE - CSI 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:**

The forensic science program is designed to provide students with entry-level skills, as well as knowledge to build on for future employment in law enforcement. This program provides a challenging environment in which students are introduced to crime scene photographing, evidence collection, fingerprinting techniques, and patterns identification.

**CTE:**

INDUSTRY SECTOR: Public Services      PATHWAY: Public Safety      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Public Safety & Driver Ed/Tng

**Course Codes:** 919358X, 919359X

CALPADS: 8412 - Advanced Public Safety (Capstone)

## LAW ENFORCEMENT 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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### Prerequisite:

This course is designed to train a student for entry-level positions in private security or public law enforcement agencies. Instruction includes history and philosophy of law enforcement, ethical practices, theories of crime and punishment, professionalism, report writing, interpretation of radio and penal codes, search and seizure techniques, gang awareness, patrol tactics and techniques, and legal and moral aspects. This course will also prepare students for further law enforcement training at the community college and/or police.

### CTE:

INDUSTRY SECTOR: Public Services

PATHWAY: Public Safety

COURSE SEQ: Year 1

### Articulated Course:

**Grad Req:** Public Safety & Driver Ed/Tng

**Course Codes:** 919355X, 919356X

CALPADS: 8411 - Intermediate Public Safety (Concentrator)

---

## SECURITY TRAINING

**Grades:** 11-12

**Duration:** Semester

**Credits:** 5 Credits

**UC/CSU:** None

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### Prerequisite:

This course is designed to give qualified students interested in a career as a Security or Loss Prevention Officer the opportunity to learn about various aspects that are related to this occupational field.

### CTE:

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

### Articulated Course:

**Grad Req:** Public Safety & Driver Ed/Tng

**Course Codes:** 919357X

CALPADS: 8411 - Intermediate Public Safety (Concentrator)

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## Science Department

### **ANATOMY & PHYSIOLOGY 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** D

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**Prerequisite:** None

This course in the life sciences is designed to prepare students for the college study of biology. The course focuses on cell physiology, tissue structure and function, human organ systems, health issues, and a survey of technological advancements in the field of medicine. Laboratory activities center around vertebrate dissections.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 914009, 914010, 924009, 924010

CALPADS: 2655 - Anatomy and Physiology

### **AP BIOLOGY 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** D

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**Prerequisite:** Consultation with current science teacher

This course in the life sciences is designed to conform to the standards of the Advanced Placement Program. The course includes thorough treatment of biochemistry, cytology, biological diversity, organismal biology, and population ecology. The curriculum is designed to prepare the student for a rigorous exam which may result in the awarding of college credit.

Notes: Dissection may be a part of this course. Students may select an alternative assignment in lieu of actual dissection of an organism.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 934001, 934002

CALPADS: 2670 - AP Biology

### **AP CHEMISTRY 1A-1B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** D

---

**Prerequisite:** None

This course is designed to meet all of the requirements of the Advanced Placement Program. The course will cover atomic structure and the interactions of combining atoms. Also covered will be the areas of stoichiometry, equation balancing, problem solving, the states of matter, oxidation-reduction reactions, periodicity of the elements, bonding, basic organic chemistry, and environmental chemistry and its impact on the ecology. The curriculum is designed to prepare the student for a rigorous exam which may result in the awarding of college credit.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 934507, 934508

CALPADS: 2671 - AP Chemistry

### AP ENVIRONMENTAL SCIENCE 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

In this course topics will include global environmental modeling, the cycling of matter and energy, human population dynamics, renewable and nonrenewable resources, environmental quality, and global policies regarding the environment.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 934520, 934520IB, 934521, 934521IB

CALPADS: 2674 - AP Environmental science

### AP PHYSICS 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** Completed or concurrent enrollment in Algebra 2. Geometry. No prior classes in physics are required

AP Physics 1 is based on the College Board's Advanced Placement Standards. It is an algebra-based, college level introductory physics class. It covers Newtonian mechanics, work and energy, momentum, mechanical waves and sound, and simple circuits. 25% of the instructional time is spent on hand-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 934509, 934510

CALPADS: 2614 - Advanced physics

### AP PHYSICS 2A-2B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** "C" or better in Pre-Calculus and consultation with current science teacher

This course is a second year physics course. It includes topics in vector analysis and equilibrium; Newton's laws of motion; work, power, and conservation of energy and momentum wave phenomena of sound, light and matter; the basics of optics, electricity and magnetism; and the modern theories of atomic and nuclear physics. Additionally, students will be introduced to problem formulation and laboratory analysis techniques necessary to succeed at the college level. The course is designed to prepare students to take the College Board AP Physics B examination.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 934511, 934512

CALPADS: 2614 - Advanced physics

## AP PHYSICS C 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** "C" or better or concurrent enrollment in Calculus and consultation with current science teacher

This course will take students through a second year of physics and prepare them to take the AP Physics C examination. Students will investigate topics in kinematics, Newton's laws, work, energy, power, momentum, circular motion, oscillatory motion, electricity, and magnetism. Problem solving will emphasize the use of calculus. A "hands-on" lab approach will be incorporated to introduce students to laboratory techniques necessary to succeed at the collegiate level. Special projects are included to give students direction over their own study of physics.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 934513, 934514

CALPADS: 2673 - AP Physics C

## ASTRONOMY 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

This course is a practical survey course in which students learn about ancient, classical, and modern astronomy and cosmology; construct their own simple instruments, and learn observational techniques using binoculars, telescopes, and the naked eye. The program of observation will include lunar phases and mapping; mapping the planets and charting their motions, star mapping and observation; and observing deep-sky objects such as galaxies and nebula. Classroom study will include early astronomy, orbits and gravitation, structure of the solar system and types of planets, satellites, rings, comets, meteors, and asteroids, structures and evolution of stars and galaxies, and cosmology.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 904505, 904505SS1, 904506, 904506SS1, 914505, 914505S, 914506, 914506S, 954505, 954506

CALPADS: 2600 - Astronomy

## BIOLOGY 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

This course is a college preparatory course in biological science. Laboratory work is an integral part of this course. These activities are designed to reinforce subject area content. Topics covered include life functions, physiological mechanisms, cell biology, molecular biology, plant anatomy and physiology, taxonomy, invertebrate zoology, natural selection, and heredity. An emphasis is placed on the evaluation of scientific and technological advances in the area of biological science.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 904001, 904001CR, 904001SS1, 904001SS2, 904002, 904002CR, 904002SS1, 904002SS2, 914001, 914001F, 914001PR, 914001S, 914001STEM, 914001U, 914002, 914002F, 914002PR, 914002S, 914002STEM, 914002U, 954001, 954002, 964001, 964001II, 964001SS1, 964002, 964002II, 964002SS1, 984001, 984002, 994001, 994002, AC4002

CALPADS: 2603 - Biology

## BIOLOGY 1A-1B HONORS

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** Consultation with current science teacher

This course is a college preparatory course in biological science. Major topics include life functions, physiological mechanism, cell biology, molecular biology, classification, natural selection and evolution, heredity, ecology and human systems. An emphasis is placed on the evaluation of scientific technological advances in the area of biological science. Laboratory activities are designed to provide students with creative problem-solving experiences. Individual and group investigations in the library and in the laboratory stress the relationship between science, technology, the individual and society.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 924001, 924001SK, 924001STEM, 924002, 924002SK, 924002STEM

CALPADS: 2604 - Advanced biology

## CHEMISTRY 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

This course is a college preparatory course in physical science. Topics presented are the application of metric measurement, the properties of matter, families of chemical elements, chemical change, techniques employed in the mathematical manipulation of chemical data, and the role of chemicals in modern society. The importance of chemistry in other scientific fields of study is emphasized.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 904507, 904507CR, 904507SS1, 904507SS2, 904508, 904508CR, 904508SS1, 904508SS2, 914507, 914507FL, 914507PR, 914507STEM, 914508, 914508FL, 914508PR, 914508STEM, 994507, 994508

CALPADS: 2607 - Chemistry

## ENV SCIENCE 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

The goal of this course is to provide students with the scientific principles, concepts, and methodologies to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, and to evaluate the risks associated with these problems and examine alternative solutions for resolving and/or preventing them.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 904520, 904521, 914520, 914521

CALPADS: 2612 - Environmental studies



**LIFE SCIENCE 1A-1B****Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None**Prerequisite:** None

This course is a one-year survey course in life science. The course covers topics in cell science; the chemistry of life, basic plant anatomy, physiology, and reproduction; vertebrate and invertebrate animals; human organ systems and health; principles of ecology and heredity; scientific measurement; and the relationship between science and technology. The major emphasis is on the application of biological concepts in the modern world.

**CTE:**INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Life Science A, Life Science B**Course Codes:** 904000CR1, 904000CR2, 904000SS1, 904000SS2, 914000, 914000S, 994003, 994004

CALPADS: 2621 - Life science

**NATURAL RESOURCES****Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** G**Prerequisite:**

People depend on natural resources. Regions, cultures, nations, and societies are shaped by how people use land, water, plants, and wildlife. The large and small ecosystems that make up the environment are complex. Each component of our ecosystem depends on another.

The purpose of this course is to provide students with an overview of the planet's natural resource systems. Students will explore and develop a basic understanding of how the systems relate to one another. Students will consider the role people play in managing, using, protecting, and conserving natural resources. In addition, the course will provide information about many different careers that are available to students who are interested in natural resources and natural resource management.

**CTE:**INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None**Articulated Course:****Grad Req:** Electives**Course Codes:** 904522

CALPADS: 2603 - Biology

## NATURAL SCIENCE 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** G

**Prerequisite:** None

This course is a college preparatory course with chemistry, physics, astronomy and oceanography components that align with District Science Standards. Laboratory work investigates core concepts in the physical science standards and is designed to reinforce subject area content. The physics component includes exploration of Newton's Laws, energy transfers, properties of wave motion and electric and magnetic phenomena. Major chemistry topics include periodic trends, bonding, conservation of mass and energy, nature of matter, properties of solutions, and atomic structure. The astronomy component addresses the structure, scale and change of the solar system, the Earth's atmosphere, optics, geology, and physical and chemical properties of rocks and minerals. Major oceanography topics include plate tectonics, role of the ocean in weather and climate, geochemical cycles, natural resources and natural hazards, and how life on Earth affects the atmosphere.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 904501, 904501CR, 904501CR1, 904501CR2, 904501SS1, 904501SS2, 904502, 904502CR, 904502CR1, 904502CR2, 904502SS1, 904502SS2, 914501, 914501F, 914501S, 914501U, 914502, 914502F, 914502S, 914502U, 954501, 954502, 964501, 964501II, 964501SS1, 964502, 964502II, 964502SS1, 984501, 984501F, 984502, 984502F, 994501, 994502

CALPADS: 2610 - Physical science

## OCEANOGRAPHY 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

This course is designed for students who are interested in investigating the physical and biological aspects of the marine environment. Physical features studied include the chemical composition of ocean water, tides, currents, waves up-welling, and the geophysical characteristics of ocean bottoms and shorelines. Biological aspects studied are the anatomy and physiology of marine organisms, major types of marine algae, representative examples of major groups of marine vertebrate and invertebrate animals, and tide pool life. Laboratory activities are conducted throughout the course. Laboratory investigations include sea water analysis, map-making, wave tank studies, and dissection of animals.

Notes: Dissection may be a part of this course. Students may select an alternative assignment in lieu of actual dissection of an organism.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 904503CR, 904504CR, 914503, 914503PR, 914503SS1, 914504, 914504PR, 954503, 954504, 994503, 994504

CALPADS: 2609 - Marine Science

**PHYSICAL SCIENCE 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:**

This course covers the structure and state of matter. Topics may include forms of energy, wave phenomenon, electromagnetism, and physical/chemical interactions.

**CTE:****INDUSTRY SECTOR:** None    **PATHWAY:** None    **COURSE SEQ:** None**Articulated Course:****Grad Req:** Physical Science A, Physical Science B**Course Codes:** 914500, 914500S, AC4502

CALPADS: 2610 - Physical science

**PHYSICS & TECHNOLOGY 1A-1B****Grades:** 11-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** D**Prerequisite:** None

This course consists of five areas of instruction: systems introduction and safety, prime movers, work, rate, and resistance. Students will then apply these principles to mechanical, fluid, electrical, and thermal systems. Students will accomplish this by working with an array of real-world laboratory equipment. The laboratory investigations will utilize computers to gather, analyze, and document the data and results

**CTE:****INDUSTRY SECTOR:** None    **PATHWAY:** None    **COURSE SEQ:** None**Articulated Course:****Grad Req:** Physical Science A, Physical Science B**Course Codes:** 914515, 914516

CALPADS: 2613 - Physics

**PHYSICS & TECHNOLOGY 2A-2B****Grades:** 11-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** Completion of Physics 1A-1B

This course will include eight areas of instruction: systems and safety review; momentum in mechanical and fluid systems; characteristics and applications of waves and vibrations; energy conversion in mechanical, fluid, electrical and thermal systems; mechanical, fluid, electrical and thermal transducers; electromagnetic and nuclear radiation; ray and wave optics, laser and optical systems; time constants in mechanical, fluid, electrical and thermal systems.

**CTE:****INDUSTRY SECTOR:** None    **PATHWAY:** None    **COURSE SEQ:** None**Articulated Course:****Grad Req:** Physical Science A, Physical Science B**Course Codes:** 914517, 914518

CALPADS: 2613 - Physics

## PHYSICS 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

This course is a college preparatory course in conceptual physics. It is offered to students who are interested in pursuing careers in the health and life sciences and to those who may not have science or health career goals, but are interested in the physical world in which they live. Topics include classical mechanics; the properties of matter; heat, sound, and light energy; electricity and magnetism; and atomic and nuclear physics. The major emphasis is concept development through laboratory experiences and concept reinforcement through application activities. There is more of an emphasis on the concepts of physics than on mathematical models and relationships.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 904509, 904509CR, 904510, 904510CR, 914509, 914509STEM, 914510, 914510STEM, 994509, 994510

CALPADS: 2613 - Physics

## ZOOLOGY 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

This college preparatory course aligns with State Standards and includes a strong ecological component. Major topics include vertebrate and invertebrate zoology and the ecological relationship between animals and their environment. Selected topics in field biology are presented to provide opportunities for students to apply their knowledge of zoology and ecology in natural environmental settings. Laboratory work, including dissections, is an integral part of this course.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Life Science A, Life Science B

**Course Codes:** 904007SS1, 914007, 914008

CALPADS: 2606 - Zoology

## CHEMISTRY 1A-1B HONORS

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** D

**Prerequisite:** None

This course is a college preparatory course in physical science. Topics include the application of metric measurement, the properties of matter, families of chemical elements, chemical change, techniques employed in the manipulation of chemical data, and the role chemistry plays in modern society. Laboratory activities are designed to provide students with creative problem-solving experiences. Individual and group investigations in the library and in the laboratory will stress the relationship between science, technology, and society.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Physical Science A, Physical Science B

**Course Codes:** 924507, 924507STEM, 924508, 924508STEM

CALPADS: 2607 - Chemistry



## **Transportation Department**

### **AUTOMOTIVE TECHNOLOGY 1A-1B**

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** G

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**Prerequisite:** None

This course has been developed to assist students in becoming informed automotive consumers. Students will be exposed to various aspects of vehicle ownership such as purchasing, insuring, and choosing a repair facility. Students will learn to perform basic maintenance and emergency repairs such as changing a tire and checking fluid levels. Students will become familiar with the various systems found in a vehicle and will be able to identify and describe the operation of major components. Safety, proper tool usage, environmental responsibility and career exploration will be emphasized in this course.

**CTE:**

INDUSTRY SECTOR: Transportation      PATHWAY: Systems Diagnostics, Services, and Repair      COURSE SEQ: Year 1

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918501, 918502

CALPADS: 8531 - Intermediate Systems Diagnostics, Service,

### **AUTOMOTIVE TECHNOLOGY 2A-2B**

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in Auto 1A-1B or instructor approval

This course will prepare students to pass the ASE test in suspension and steering (A4). Students will become familiar with steering system diagnosis and repair, suspension system diagnosis and repair, wheel alignment, and wheel and tire diagnosis and repair. Students completing this course with a "C" or better should be prepared to obtain entry-level employment in steering and suspension system diagnosis and repair. Safety, proper tool usage, environmental responsibility and career exploration will be emphasized in this course.

**CTE:**

INDUSTRY SECTOR: Transportation      PATHWAY: Systems Diagnostics, Services, and Repair      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918503, 918504

CALPADS: 8532 - Advanced Systems Diagnostics, Service, and

### AUTOMOTIVE TECHNOLOGY 3A-3B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in Auto 2A-2B or instructor approval

This course will prepare students to pass the ASE test in Electricity and Electronics (A6). Students will become familiar with general electrical diagnosis and repair, battery diagnosis and repair, starting system diagnosis and repair, charging system diagnosis and repair, lighting system diagnosis and repair, gauge/driver information system diagnosis and repair, horn and wiper system diagnosis and repair, and electrical accessory diagnosis and repair. Students completing this course with a "C" or better should be prepared to obtain entry-level employment in electrical system diagnosis and repair. Safety, proper tool usage, environmental responsibility and career exploration will be emphasized in this course.

**CTE:**  
INDUSTRY SECTOR: Transportation      PATHWAY: Systems Diagnostics, Services, and Repair      COURSE SEQ: Year 3

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918505, 918506

CALPADS: 8531 - Intermediate Systems Diagnostics, Service,

### AUTOMOTIVE TECHNOLOGY 4A-4B

**Grades:** 12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor approval

This course emphasizes refinement of diagnostic and repair skills developed in previous automotive courses. In addition, students enrolled in Auto 4A, may (with instructor approval) choose to explore topics such as engine repair (A1), automatic transmission repair (A2), manual drivetrain repair (A3), and HVAC repair (A7). Students enrolled in Auto 4A will also focus on developing leadership and management skills. Students completing this course with a "C" or better should be prepared to obtain entry-level employment in general automotive diagnosis and repair. Safety, proper tool usage, environmental responsibility and career exploration will be emphasized in this course.

**CTE:**  
INDUSTRY SECTOR: Transportation      PATHWAY: Systems Diagnostics, Services, and Repair      COURSE SEQ: Year 4

**Articulated Course:**

**Grad Req:** Industrial Technology

**Course Codes:** 918507, 918508

CALPADS: 8532 - Advanced Systems Diagnostics, Service, and

**AVIATION 1A-1B****Grades:** 11-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** None**Prerequisite:** None

Aviation is comprised of five main units. The first unit is Fundamentals of Flight, and it includes the training process, basics of airplane systems, and an understanding of aerodynamic principles. The second unit is Flight Operations. It includes airport facilities, air traffic control services, communication procedures, and sources of flight information. The third unit is Aviation Weather. Students are introduced to the variable atmosphere and its effect on aircraft operations. The fourth unit, Performance and Navigation, includes aircraft capabilities and limitations in terms of performance parameters as well as navigation using charts, radio aids and GPS. The fifth unit, Integrating Pilot Knowledge and Skills applies aeronautical decision making principles and flight-related physiological factors to practical use in the cockpit. Scenario based training helps provide insight into how previously learned knowledge and skills can be applied during a cross-country flight. Ground and simulator based training will be provided. Near the end of the course, students will have the opportunity to take the FAA Private Pilot Knowledge Exam.

**CTE:**INDUSTRY SECTOR: TransportationPATHWAY: OperationsCOURSE SEQ: Year 1**Articulated Course:****Grad Req:** Industrial Technology**Course Codes:** 919537, 919538

CALPADS: 8511 - Intermediate Operations (Concentrator)
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## AP STUDIO ARTS: DRAWING 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** F

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**Prerequisite:** "B" or better in Drawing and Painting 1A-1B or instructor approval

This course is designed for the highly motivated and responsible student interested in the serious study of art. It will provide an intensive examination of the process and content of visual expression through two-dimensional and three-dimensional works. Emphasis is placed on the quality, concentration, and breadth of the student's production and experiences. The goal of this course is the completion of a portfolio of artwork, which has been produced by the student, the majority of which has been produced this year, for evaluation at the end of the year by a group of artists and teachers. This advanced placement course requires the student to work outside of the classroom and scheduled class time.

**CTE:**

INDUSTRY SECTOR: Arts, Media, and Entertainment      PATHWAY: Design, Visual, and Media Arts      COURSE SEQ: Year 2

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 935013, 935014

CALPADS: 7218 - Advanced Visual/Commercial Art (Capstone)

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## BEGINNING PERCUSSION

**Grades:** 09-12      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** F

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**Prerequisite:** None

This course will focus on basic percussion techniques and practices. The students will learn necessary rudiments and music reading skills that can be used in all percussion playing. Students who complete this class should be able to participate at some level in the various band classes offered. The students will be exposed to percussion music and instruments from other cultures. They will learn the history of percussion music and its importance as a form of communication. The students will be instructed in listening skills and self-evaluation techniques that will enhance their performances. The students will listen to other percussionists and will be able to distinguish between proper and improper techniques.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915135

CALPADS: 7233 - Introduction to Professional Music

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## DANCE PERFORMANCE 2A-2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Instructor Approval

Dance Performance 2 is designed to develop intermediate skills in Ballet, Jazz, Modern, and introductory West African Tribal techniques. Students will be introduced to the study of choreographic technique enhanced by rubric based choreography assessments. Students will advance the knowledge and comprehension of the kinesthetic principles, historical and cultural context, and appreciation of Dance as an art form introduced in Dance Performance I with emphasis in Artistic Perception and Creative Expression.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts, Physical Education

**Course Codes:** 915303, 915304, 917077, 917078

CALPADS: 2509 - Elective Physical Education Dance (physical)

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## INTERMEDIATE CHOIR 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:** Previous participation/ musical background and consent of instructor

This course is a yearlong program in which students will study and perform choral music from a wide variety of cultures, languages, styles, and time periods. Students will listen to and perform music, in addition to engaging daily in music literacy (reading and writing music in addition to academic language in a variety of languages). Students will be able to use artistic perception, historical context, creativity and analysis to demonstrate how dance, music, theater and visual arts are related to each other, to the other content areas, and to lifelong learning. Students will also be able to connect other subject areas to music, dance and theater through competitive travel throughout the United States and abroad. The purpose of this intermediate to advanced choir course is to develop the students' musical skill and vocal technique, in addition to an appreciation for singing and the performing arts. Vocal Technique includes posture, breath support, resonance, tone production, and articulation, by means of various exercises, kinesthetic activities, lectures and rehearsal of performance literature. Students will be able to identify the anatomy of the human voice and use this knowledge to improve their individual breath support and age appropriate tone production techniques. Through various stretching and balance exercises, students will understand how to hold themselves in correct body placement for optimal breath support and tone production. Moving beyond the mere performance of lyrics, this course aims to develop a deeper understanding of the production of phonetic sounds including the pronunciation and placement of vowels, voiced and voiceless consonants, and diphthongs in order to improve the ensembles' blend, balance, and clarity of communication. The choir will perform songs in various languages, styles, and genres.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915213, 915214

CALPADS: 7235 - Advanced Professional Music (Capstone)

## Music Arts

### VOCAL AND AUDIO PRODUCTION 1A-1B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** F

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**Prerequisite:** Application & Audition

This Vocal & Audio Production course offers students an opportunity to focus on the aesthetic qualities of vocal and audio production so as to analyze the inherent form of communication in today's society. Small group instruction and coaching will be provided so allow students to focus on the aesthetic qualities of vocal and sound production. Students will integrate creative expression and the development of creative ideas individually and/or in groups. Their creative process will include writing, rewriting, collaboration and additional rewriting. They will ensure their proposed project connect to their proposed audience, extend beyond their intended audience and integrate their level of music study into a various of musical styles. Knowledge and utilization of microphones, digital, analog and computer (digital)- based audio editing and recording equipment will be a secondary focus within this course. Instruction in basic vocal technique, microphone technique, audition technique and recording technique will be taught and refined during this course. Emphasis will be placed on the purpose of communicating the purpose of the song to an intended audience. Students may receive individual vocal instruction in addition to professional coaching from industry professionals. Students will develop a Digital Audio Portfolio that may be utilized as they prepare for potential careers in music engineering and production.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Fine Arts

**Course Codes:** 915211, 915212

CALPADS: 7235 - Advanced Professional Music (Capstone)

## Work Experience Department

### **EXPLORATORY WORK EXPERIENCE 1A-1B**

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

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**Prerequisite:** Student observes a job at least 10 hours (10 credits) or 5 hours (5 credits) See notes for full description.

This course is an elective course which combines non-paid job observation and sampling with related classroom instruction in employability skills. Students will ascertain their interest and suitability for the occupations they are exploring. Instruction is the same as General Work Experience with the exception that additional time is given to career-awareness/exploration activities and the skills needed to acquire employment.

Instruction in level 1A is divided into three parts involving the employment cycle: How to Get a Job, Keep a Job, and Leave a Job. Labor laws, employee rights, income taxes, and other pertinent topics will be discussed as they relate to the employment cycle. Instruction is modified for special needs learners.

Notes: Work Experience coordinator approval. Student observes a job at least 10 hours (10 credits) or 5 hours (5 credits) per week at a non-residential/stationary business location, within approximately 30 miles of the CNUUSD. The job to be observed must be approved by the WEE coordinator.

Course Requirements:

- a. Student participates in non-paid job observations a minimum of 60% of weeks in the semester
  - b. Student submits an enrollment card/training agreement
  - c. Student submits a work permit application if under age 18
  - d. Student attends once a week related instruction class regularly
  - e. Student submits weekly time sheets signed by employer regularly
  - f. Student satisfactorily completes assignments, etc., as required
  - g. Student develops a portfolio (resume, references, application, etc.)
- May be taken as a 5 or 10 credit semester.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919055, 919056

CALPADS: 7002 - Exploratory Work Experience Education (EWEE)

## EXPLORATORY WORK EXPERIENCE 2A-2B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Student observes a job at least 10 hours (10 credits), or 5 hours (5 credits) See notes for full description.

This course is an elective course which combines non-paid job observation and sampling with related classroom instruction in employability skills. Students will ascertain their interest and suitability for the occupations they are exploring. Instruction is the same as General Work Experience with the exception that additional time is given to career-awareness/exploration activities and the skills needed to acquire employment.

Instruction in level 2A expands upon, the curriculum of level 1A (Employment Cycle: How to Get a Job, Keep a Job, and Leave a Job). Greater emphasis is placed on post-graduation resumes and interview skills, succeeding on the job, and communication skills. Instruction is modified for special needs learners.

Notes: 1A is a prerequisite for 2A or Work Experience coordinator approval. A passing grade is required if enrolled in previous semester. Student observes a job at least 10 hours (10 credits), or 5 hours (5 credits) per week at a non-residential/stationary business location, within approximately 30 miles of the CNUSD. The job to be observed must be approved by the WEE coordinator.

Course Requirements:

- a. Student participates in non-paid job observations a minimum of 60% of weeks in a semester
- b. Student submits an enrollment card/training agreement
- c. Student submits a work permit application if under age 18
- d. Student attends once a week related instruction class regularly
- e. Student submits weekly time sheets signed by employer regularly
- f. Student satisfactorily completes assignments, etc., as required
- g. Student updates and revises previous year's portfolio

May be taken as a 5 or 10 credit a semester.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919057, 919058

CALPADS: 7002 - Exploratory Work Experience Education (EWEE)

## GENERAL WORK EXPERIENCE 1A-1B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Student must have a legally paid job, working at least 10 hours (10 credits) a week, or 5 hours (5 credits). See Notes for full description

This course is an elective class which combines supervised, paid employment in any occupational field with related classroom instruction in employability skills. Students will develop work habits, attitudes, self-confidence, and job skills which can be used to locate, secure, and retain employment in the community.

Instruction in level 1A is divided into 3 parts involving the Employment Cycle: How to Get a Job, Keep a Job, and Leave a Job. Labor laws, employee rights, income taxes and other pertinent topics will be discussed as they relate to the employment cycle.

Notes: Student must have a legally paid job, working at least 10 hours (10 credits a week, or 5 hours (5 credits), at a non-residential/stationary business location, within approximately 30 miles of the CNUUSD. Self-employment or independent contractor status is not allowed. Job must be legal, safe, moral and approved by the WEE coordinator. Students must obtain a valid work permit if under age 18. Course Requirements:

- a. Legal job (see prerequisite) working minimum of 60% of semester
- b. Student submits an enrollment card/training agreement
- c. Student submits a work permit application if under age 18
- d. Student attends once a week related instruction class regularly
- e. Student submits weekly time sheets signed by employer regularly
- f. Student submits paycheck stubs monthly
- g. Student satisfactorily completes assignments, etc. as required
- h. Student develops a portfolio (resume, references, applications, etc.)

May be taken as 5 or 10 credits per semester.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919051, 919051P1, 919051P2, 919051P5, 919051P6, 919051P7, 919051P8, 919051PZ, 919052, 919052P1, 919052P2, 919052P5, 919052P6, 919052P7, 919052P8, 919052PZ, 959051P5, 959051P6, 959051P7, 959051P8, 959051PZ, 959052P5, 959052P6, 959052P7, 959052P8, 959052PZ

CALPADS: 7003 - General Work Experience Education (GWEE)

## GENERAL WORK EXPERIENCE 2A-2B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** Student must have a legally paid job, working at least 10 hours (10 credits) a week, or 5 hours (5 credits) See Notes for full description

This course is an elective class which combines supervised, paid employment in any occupational field with related classroom instruction in employability skills. Students will develop work habits, attitudes, self-confidence, and job skills which can be used to locate, secure, and retain employment in the community.

Instruction in level 2A repeats, but expands upon the curriculum of level 1A (Employment Cycle: How to Get a Job, Keep a Job, and Leave a Job). Greater emphasis is placed on post-graduation resumes and interview skills, succeeding on the job, and communications skills.

Notes: 1A is a prerequisite for 2A or instructor approval. A passing grade is required if enrolled in the previous semester. Student must have a legally paid job, working at least 10 hours (10 credits) a week, or 5 hours (5 credits), at a non-residential/stationary business location, within approximately 30 miles of the CNUUSD. Self-employment or independent contractor status is not allowed. Job must be legal, safe, moral and approved by the WEE coordinator. Students must obtain a valid work permit if under age 18.

Course Requirements:

- a. Legal job (see prerequisite) working minimum of 60% of semester
- b. Student submits an enrollment card/training agreement
- c. Student submits a work permit application if under age 18
- d. Student attends once a week related instruction class regularly
- e. Student submits weekly time sheets signed by employer regularly
- f. Student submits paycheck stubs monthly
- g. Student satisfactorily completes assignments, etc. as required
- h. Student updates and revises previous year's portfolio

May be taken as 5 or 10 credits per semester.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** Electives

**Course Codes:** 919053P5, 919053P6, 919053P7, 919053P8, 919053PZ, 919054P5, 919054P6, 919054P7, 919054P8, 919054PZ, 959053P5, 959053P6, 959053P7, 959053P8, 959053PZ, 959054P5, 959054P6, 959054P7, 959054P8, 959054PZ

CALPADS: 7003 - General Work Experience Education (GWEE)



## World Languages Department

### **AP CHINESE LANGUAGE & CULTURE 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

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**Prerequisite:** Grade of a "C" or better in Chinese 3 or Chinese for Native Speakers 2, or per teacher recommendation.

Advanced placement Chinese uses an integrated approach to language learning. Course materials include authentic materials: radio broadcasts, newspaper, websites and literary works. Language and culture are taught simultaneously through the use of these materials. Students will be required to prepare oral presentations, work on individual and group projects, and research a variety of teacher and student selected topics. Class will be conducted entirely in Mandarin Chinese and students are expected to communicate entirely in Mandarin Chinese as well. Students will be given the option to read and write in either simplified or traditional characters.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 936207, 936208

CALPADS: 2278 - AP Chinese Language and Culture

### **AP FRENCH LANGUAGE & CULTURE 1A-1B**

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

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**Prerequisite:** "C" or better in French 3A-3BA passing grade in 4A is required for enrollment in 4B

This course is designed to conform with the general standards of the Advanced Placement program. Listening, speaking, reading, and writing skills will be refined through intensive study of literary and practical French written materials. Grammatical skills and vocabulary development will be enhanced through compositions, reports, essays, and debates. The course will also prepare the student for a rigorous exam in the spring which may result in the awarding of college credit. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: French

**Course Codes:** 936107, 936108

CALPADS: 2270 - AP French language

### AP GERMAN LANGUAGE & CULTURE 1A-1B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** "C" or better in German 3A-3B. A passing grade in 4A is required for enrollment in 4B.

This course is designed to conform with the general standards of the Advanced Placement program. Listening, speaking, reading, and writing skills will be refined through the intensive study of literary and practical German written material. Grammatical skills and vocabulary development will be enhanced through compositions, reports, essays, and debates. The course will also prepare the student for a rigorous exam in the spring which may result in the awarding of college credit. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: German

**Course Codes:** 936307, 936308

CALPADS: 2272 - AP German language

### AP SPANISH LANGUAGE & CULTURE 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

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**Prerequisite:** "C" or better in Spanish 3A-3B recommended. A passing grade in 4A is required for enrollment in 4B

This course is designed to conform with the general standards of the Advanced Placement program. Listening, speaking, reading, and writing skills will be refined through the intensive study of literary and practical Spanish written material. Grammatical skills and vocabulary development will be enhanced through compositions, reports, essays, and debates. The course will also prepare the student for a rigorous exam in the spring which may result in the awarding of college credit. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Spanish

**Course Codes:** 936007, 936007IB, 936008, 936008IB

CALPADS: 2275 - AP Spanish language

### AP SPANISH LITERATURE & CULTURE 1A-1B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

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**Prerequisite:** "C" or better in Spanish 4A-4B Advanced Placement or instructor approval

This course is designed to provide students with an in-depth study of selected works from the literature of Spain and Spanish America. Students read and analyze literature both orally and in writing in Spanish. This course emphasizes advanced composition, grammar and dialogue focused on the analysis of Spanish literary works representing all genres.

**CTE:**  
INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Spanish

**Course Codes:** 936009, 936010

CALPADS: 2276 - AP Spanish literature

## CHINESE 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** E

**Prerequisite:** CST Scores in the mid Basic range

This is an introductory course on Mandarin Chinese with an emphasis on general communication skills. Students will be able to listen to and understand basic spoken Chinese, respond orally using core vocabulary, begin to recognize Chinese characters and learn how to use the pinyin system of writing and pronunciation.

There will be a focus on grammar throughout the course that will include concepts such as simple clauses, adjectives, and formation of sentences. Lessons will include concepts such as greetings, introductions, nationalities, age, occupations, dates and time, numbers, days and months, hobbies, and expressions of likes and dislikes. The course will also include lessons that expand upon students knowledge and appreciation of Chinese culture and history.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 916201, 916202

CALPADS: 2214 - Chinese (first and second year)

## CHINESE 2A-2B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** E

**Prerequisite:** Grade of "C" or better in Chinese IB

This course is the continuation of the material covered in Chinese I. Students will experience further development in their general communication skills of reading, writing, and speaking. Students will be exposed to the most common Chinese characters and phrases and calls upon them to form more complex sentences through conjunctions and comparative sentences. By the conclusion of the course, students are expected to be able to read and write short essays.

Chinese culture and history is further explored by focusing on concepts such as the Chinese New Year and examining the relationship between Taiwan and China. The course will also examine China's expanding economic influence throughout the world and its relationship with the United States. Ultimately, students will be expected to be able to advance their knowledge of Chinese society and culture.

**CTE:**

INDUSTRY SECTOR: None

PATHWAY: None

COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 916203, 916204

CALPADS: 2214 - Chinese (first and second year)

### CHINESE 3A-3B

**Grades:** 10-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** E

**Prerequisite:** Completion of Chinese 2 or Chinese for Native Speakers with a C average or higher

Chinese 3 further develops and refines the speaking, listening, reading and writing skills developed in the first two years. Through constant practice, students expand their ability from everyday survival language to more advanced interactions. Conducted mainly in Chinese, the course includes grammar review, vocabulary development and engages students in communicative exercises. Reading materials include a selection of contemporary articles, and literary as well as cultural authentic texts. Reports and oral presentations strengthen understanding of target language.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 916205, 916206

CALPADS: 2215 - Chinese (advanced)

### CHINESE 3A-3B HONORS

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** E

**Prerequisite:** "B" or better in Chinese 2A-2B or teacher recommendation.

Chinese 3A-3B Honors is designed to prepare students for the rigor of the 4th year Advanced Placement Course. This Chinese 3A-3B Honors course will bring the students an opportunity to refine their four language proficiency skills: listening, speaking, reading and writing in the intermediate to Advanced-level range across the three communicative modes (Interpersonal, Interpretive, and Presentational) and the California World Language Standards (Content, Communication, Culture, Structures and Settings). This course provides the students an opportunity to immerse in the richness of Chinese Language and Culture by comparing Chinese-speaking cultures with his/her own culture and presenting selections from a variety of literature and media. Students are required to speak in Chinese as much as possible to increase their confidence in applying target language at home, at school, and in the community.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 926205, 926206

CALPADS: 2215 - Chinese (advanced)

## CHINESE 4A-4B

**Grades:** 11-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** None

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**Prerequisite:** Grad of a "C" or better in Chinese 3

This course continues the language development in all areas of listening, speaking, reading and writing from Chinese 3. Oral and written materials will be expanded to expose students to social and practical topics in formal and informal settings. Students will be able to comprehend a nontechnical lecture and discuss the information gained from the lecture. This course is conducted entirely in Mandarin Chinese. Students will be given the option to read and write in either simplified or traditional characters. Students will learn approximately 400 additional characters.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 916207, 916208

CALPADS: 2215 - Chinese (advanced)

## CHINESE FOR HERITAGE SPEAKERS 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

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**Prerequisite:** Speaks Chinese at Home

This course is designed for students who have grown up speaking Chinese as a home language, who speak fluently, but do not read or write characters. This course will focus on developing reading and writing skills as well as maintaining and strengthening the strong oral and listening skills acquired at home. Students will learn approximately 700 simplified characters. This course will also promote cultural awareness through various literary essays and graded readers. Successful completion of this course will enable students to enroll in Chinese 3 or AP Chinese per teacher recommendation.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 916211, 916212

CALPADS: 2223 - Chinese for native speakers

## CHINESE FOR HERITAGE SPEAKERS 2A-2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

---

**Prerequisite:** Grade of "C" or better in Chinese for Native Speakers 1B

This course further develops and refines the speaking, listening, reading and writing skills developed in Chinese for Native Speakers 1A-1B. Through constant practice, students expand their ability from everyday survival language to more advanced interactions. Conducted entirely in Chinese, this course includes grammar review, vocabulary development, and engages students in communicative exercises. Reading materials include a selection of contemporary articles, and literary as well as cultural authentic texts. Reports and oral presentations strengthen all areas. Students will learn an additional 700 characters, either in the simplified or traditional form.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Chinese

**Course Codes:** 916213, 916214

CALPADS: 2223 - Chinese for native speakers

**FRENCH 1A-1B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** E**Prerequisite:** A Passing grade in 1A is required for enrollment in 1B

This course is designed to help students develop language skills of listening, speaking, reading, and writing through the study of basic elements of the sound system of the language, basic structural patterns, and useful everyday vocabulary. An introduction to French culture is included. Emphasis will be placed on the listening and speaking activities and upon the grammatical principles of the present tense through written exercises. Simple directions and survival expressions will be used in place of English. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** LOTE: French**Course Codes:** 906101, 906102, 916101, 916102

CALPADS: 2204 - French (first and second year)

**FRENCH 2A-2B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** E**Prerequisite:** "C" or better in French 1A-1B, A passing grade in 2A is required for enrollment in 2B

This course is designed to help students develop language skills of listening, speaking, reading, and writing through the study of basic elements of the sound system of the language, basic structural patterns, introduction to French culture is included.

French 2A-2B will primarily be taught in French with a minimum of English spoken by students and the instructor. The present tense will be reviewed and the past tense will be introduced at this level. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** LOTE: French**Course Codes:** 906103, 906104, 916103, 916104

CALPADS: 2204 - French (first and second year)

**FRENCH 3A-3B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** E**Prerequisite:** "C" or better in French 2A-2B, A passing grade in 3A is required for enrollment in 3B

This course is designed to develop further the students' control of the language through listening, speaking, reading, and writing activities. The major emphasis is placed upon listening and speaking. Reading and writing activities are presented simultaneously. There is further study of cultural topics. This course will be conducted in French only. Literature will be introduced as a means of integrating all grammatical principles and tenses. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** LOTE: French**Course Codes:** 916105, 916106

CALPADS: 2205 - French (advanced)

## FRENCH 3A-3B HONORS

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** E

**Prerequisite:** "B" or better in French 2A-2B. A passing grade in 3 A Honors is required for enrollment in 3B Honors

French 3A-3B Honors/Pre-AP is designed to prepare students for the rigor of the 4th year Advanced Placement French Language and Culture course and satisfy the California World Language Standards for Level 3. Listening, speaking, reading and writing skills are equally emphasized. Grammatical skills and vocabulary development are enhanced through literature, compositions, reports, essays and debates. This course is conducted exclusively in French only and is communication based. It emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing and culture.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: French

**Course Codes:** 926105, 926106

CALPADS: 2205 - French (advanced)

## FRENCH 4A-4B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** French 3 or by teacher recommendation

This course is designed to conform to the general standards of the level four program. Listening, speaking, reading and writing skills will be refined through the intensive study of literary and practical French written material. Grammatical skills and vocabulary development will be enhanced through compositions, reports, essays and debates. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture and learning skills.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: French

**Course Codes:** 916107, 916108

CALPADS: 2205 - French (advanced)

## FRENCH 5A-5B

**Grades:** 11-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** "C" or better in French 4A-4B, AP French Language and Culture, or instructor approval

This course is designed to provide students with an in-depth study of selected works from French literature. Students read and analyze literature both orally and in writing in French. This course emphasizes advanced composition, grammar, and dialogue focused on the analysis of French literary works representing all genres.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: French

**Course Codes:** 916109, 916110

CALPADS: 2271 - AP French literature

## GERMAN 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** A Passing grade in 1A is required for enrollment in 1B

This course is designed to help the students develop language skills of listening, speaking, reading, and writing through the study of basic elements of the sound system of the language, basic structural patterns, and useful everyday vocabulary. Emphasis will be placed on the listening and speaking activities and upon the grammatical principles of the present tense through written exercises. Simple directions and survival expressions will be used in place of English. An introduction to German culture is included. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: German

**Course Codes:** 916301, 916302

CALPADS: 2200 - German (first and second year)

## GERMAN 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** "C" or better in German 1A-1B A passing grade in 2A is required for enrollment in 2B

This course is designed to help the students develop language skills of listening, speaking, reading, and writing through the study of basic elements of the sound system of the language, basic structural patterns, and useful everyday vocabulary. Emphasis will be placed upon the listening and speaking activities and upon the reinforcement of grammatical principles in the past tense through written exercises. An introduction to German culture is included. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: German

**Course Codes:** 916303, 916304

CALPADS: 2200 - German (first and second year)

## GERMAN 3A-3B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** None

**Prerequisite:** "C" or better in German 2A-2B. A passing grade in 3A is required for enrollment in 3B.

This course is designed to further develop the students' control of the language through listening, speaking, reading, and writing activities. The course will be conducted in German only as a means of further developing listening and speaking skills. Literature will be introduced as a means of integrating all grammatical principles and tenses. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: German

**Course Codes:** 916305, 916306

CALPADS: 2201 - German (advanced)



## INTRODUCTION TO SPANISH

**Grades:** 9      **Duration:** Semester      **Credits:** 5 Credits      **UC/CSU:** None

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**Prerequisite:** None

This course is a one semester course for 9th graders who need additional support prior to entering Spanish 1A-1B. This course may provide an excellent back up to Health and is available for elective credit only. This course is recommended for incoming 9th graders who score at the below basic and far below basic CST for Language Arts.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Spanish

**Course Codes:** 916000

CALPADS: 2206 - Spanish (first and second year)

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## SPANISH 1A-1B

**Grades:** 09-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

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**Prerequisite:** A Passing grade in 1A is required for enrollment in 1B

This course is designed to develop the language skills of listening, speaking, reading, and writing through the basic elements of the sound system. Emphasis will be placed on the listening and speaking activities and upon the grammatical principles of the present tense through written exercises. Cultural topics will also be introduced. Simple directions and survival expressions will be used in place of English. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Spanish

**Course Codes:** 906001, 906002, 916001, 916001IB, 916002, 916002IB, 946001, 946001F, 946001U, 946002, 946002U, AC6000, AC6001

CALPADS: 2206 - Spanish (first and second year)

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## SPANISH 2A-2B

**Grades:** 10-12      **Duration:** Year      **Credits:** 10 Credits      **UC/CSU:** E

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**Prerequisite:** "C" or better in Spanish 1A-1B. A passing grade in 2A is required for enrollment in 2B.

This course will further develop listening and speaking skills. The present tense will be reviewed and the preterite and imperfect tenses will be introduced. This course is conducted in Spanish. Students are encouraged to participate in Spanish at all times. This course is designed to further the students cultural awareness. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**

INDUSTRY SECTOR: None      PATHWAY: None      COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Spanish

**Course Codes:** 906003, 906003SS1, 906003SS2, 906004, 906004SS1, 906004SS2, 916003, 916004, 916004IB, 916004Z, 946003, 946003F, 946003U, 946004

CALPADS: 2206 - Spanish (first and second year)

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**SPANISH 3A-3B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** E**Prerequisite:** "C" or better in Spanish 2A-2B recommended. A passing grade in 3A is required for enrollment in 3B.

This course is designed as a comprehensive review of Spanish listening, speaking, reading, and writing skills introduced through Spanish 2A-2B. This course will be conducted in Spanish only as a means of further developing listening and speaking skills. Literature will be introduced as a means of integrating all grammatical principles and tenses. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** LOTE: Spanish**Course Codes:** 906005, 906006, 916005, 916006, 946005, 946006

CALPADS: 2207 - Spanish (advanced)

**SPANISH 3A-3B HONORS****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** E**Prerequisite:** "B" or better in Spanish 2A-2B. A passing grade in 3A Hrs is required for enrollment in 3B.

Spanish 3A-3B Honors/Pre-AP is designed to prepare students for the rigor of the 4th year Advanced Placement Course and to satisfy the California World Language Standards for Level 3. Listening, speaking, reading and writing skills are equally emphasized. Grammatical skills and vocabulary development are enhanced through literature, compositions, reports, essays and debates. This course is conducted exclusively in Spanish and is communication based. It emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, and culture.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** LOTE: Spanish**Course Codes:** 926005, 926005DI, 926006, 926006DI

CALPADS: 2207 - Spanish (advanced)

**SPANISH 4A-4B****Grades:** 09-12**Duration:** Year**Credits:** 10 Credits**UC/CSU:** E**Prerequisite:** Spanish 3 or by teacher recommendation

This course is designed to conform with the general standards of the level four program to prepare students for placement in the Advanced Placement Spanish Language class. Listening, speaking, reading and writing skills will be refined through the intensive study of literary and practical Spanish written material. Grammatical skills and vocabulary development will be enhanced through compositions, reports, essays and debates. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture and learning skills.

**CTE:**INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None**Articulated Course:****Grad Req:** LOTE: Spanish**Course Codes:** 916007, 916008

CALPADS: 2207 - Spanish (advanced)

## SPANISH FOR HERITAGE SPEAKERS 1A-1B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** E

**Prerequisite:** Native Spanish-speaking student

This course is designed to meet the needs of the native Spanish-speaking student who is fluent in the listening and speaking skills of Spanish. This course is intended for the Spanish speaker who needs to improve the basic skills of grammar, reading, and writing and may lead to meeting the minimal requirements for entry in Spanish 3A-3B. Students who successfully complete this course may be eligible to enroll in either Spanish for Native Speakers 2A-2B or Spanish 3A-3B depending upon teacher recommendation. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Spanish

**Course Codes:** 916011, 916011DI, 916012, 916012DI

CALPADS: 2225 - Spanish for native speakers

## SPANISH FOR HERITAGE SPEAKERS 2A-2B

**Grades:** 09-12

**Duration:** Year

**Credits:** 10 Credits

**UC/CSU:** E

**Prerequisite:** Native Spanish-speaking student

This course is designed for students who have proficient Spanish listening and speaking skills. The development of vocabulary and critical thinking skills based on literature will be emphasized and enhanced. The course will encompass the problems that native speakers face: syntax, diacritical marks, spelling, and special grammatical principles and fluency. Students who successfully complete this course may enroll in either Spanish 3A-3B or 4A-4B depending upon teacher recommendation. This course is communication based and emphasizes collaborative and communicative activities within the areas of listening, speaking, reading, writing, culture, and learning skills.

**CTE:**

INDUSTRY SECTOR: None    PATHWAY: None    COURSE SEQ: None

**Articulated Course:**

**Grad Req:** LOTE: Spanish

**Course Codes:** 916013, 916013DI, 916014, 916014DI

CALPADS: 2225 - Spanish for native speakers