

2021  
2022

COURSE  
CATALOG



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# THE MISSION

OF THE EDEN AREA REGIONAL OCCUPATIONAL PROGRAM

IS TO PREPARE  
STUDENTS

FOR CAREERS  
& FURTHER EDUCATION

AS WELL AS TO INSTILL WORKPLACE VALUES

THAT WILL ENABLE THEM

TO COMPETE  
SUCCESSFULLY

IN THE ECONOMY

OF TODAY & THE FUTURE

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Eden Area ROP is accredited by The Western Association of Schools and Colleges (WASC).

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# ABOUT US

**What is ROP?** Regional Occupational Programs (ROPs) are one of the longest-standing forms of postsecondary career preparedness in California. The intent of the ROP structure is to provide a hands-on learning experience through Career and Technical Education (CTE) curriculum for students (16 and older) and adults with entry-level career and technical training. Eden Area Regional Occupational Program offers courses on site, and at Castro Valley, Hayward, San Leandro and San Lorenzo Unified School Districts. These courses prepare students for careers and further education, as well as instill workplace values that will enable them to compete successfully in the economy of today and the future.

## **Why Take Courses At Eden Area ROP?**

Experience is the greatest teacher. We offer hands-on career training that covers 13 different business sectors. Many of our courses also offer the opportunity to earn industry recognized certification. Our facility is fully outfitted with industry standard equipment and credentialed instructors with years of real world experience.

## **How Do I Register for Eden Area ROP Classes?**

Students who are interested in registering for ROP classes are encouraged to make an appointment with their high school counselor or visit the career center on their high school campus. Students may also visit our website [www.edenrop.org](http://www.edenrop.org)

## **Are High School & College Credits Available?**

Yes! All courses offer high school credits. Some courses fulfill math and science credits for graduation. Many of our courses have articulation agreements with local community colleges, allowing students the opportunity to earn college credit.

**What Is An Articulation?** Articulation is a link between a high school or ROP and a collegiate institution. An articulation agreement allows students to earn free college credit. The credit is placed on the student's collegiate transcript and can be taken to any college for credit. Additionally, articulation may allow a student to skip the entry level course when they enroll in a college. (Please see pages 29-30 for a list of articulated course.)

**What Is The Cost?** ROP is free to high school students.

**What About Transportation?** Eden Area ROP provides free bus transportation to and from student's home school, for any student enrolled in our programs at the center.

**Are There Any Other Costs?** Some of our courses may have additional costs for uniforms, protective equipment, or medical costs.

## **What Is A Community Classroom?**

A community classroom provides the student the opportunity to work while earning high school credits. This type of learning is referred to as an internship. Students work non-paid positions to earn on the job experience. This work advances the student's skill set making them more competitive in the job market.

**Is Business Involved?** Over three hundred local employers participate on Eden Area ROP advisory committees to keep training current with industry standards. Many classes offer non-paid internships or on-the-job training at businesses and industry sites throughout the county. Employers who need highly skilled, motivated employees hire Eden Area ROP graduates!

**150+ CLASSES**  
**THIRTEEN**  
**INDUSTRY**  
**SECTORS**  
**4,500+**  
**STUDENTS**

**4 DISTRICTS SERVED**

CASTRO VALLEY UNIFIED SCHOOL DISTRICT

HAYWARD UNIFIED SCHOOL DISTRICT

SAN LEANDRO UNIFIED SCHOOL DISTRICT

SAN LORENZO UNIFIED SCHOOL DISTRICT

# LETTER FROM THE SUPERINTENDENT



## DEAR COMMUNITY MEMBERS,

This year marks the 50th anniversary of the Eden Area Regional Occupational Program (EAROP). It is with gratitude and an understanding of the importance of community that I write this letter. For the last 50 years, EAROP has been educating “essential employees” for our community. It is estimated that approximately 200,000 high school students have taken ROP courses.

Our alumni work throughout the cities of Castro Valley, Hayward, San Leandro, San Lorenzo, and beyond. EAROP students have entered the workforce and found careers in a variety of fields including public safety, medicine, dentistry, business, education, transportation, technology, manufacturing, and the arts.

Our community partnerships are what make this all possible. The school districts have supported EAROP and have entrusted their students to us. The Chabot-Las Positas Community College District provides pathways for students to complete job training, certificates, AA degrees, and transition to 4 year universities. The chambers of commerce help us promote work-based learning opportunities to the regional business community and continue to be our biggest advocates of our mission to support local workforce development. Businesses provide work-based learning opportunities and come into the classrooms as guest speakers. They provide internships, scholarships, apprenticeships, and eventually employment.



When I reflect on the last 50 years, I am grateful for the early visionaries who established EAROP as one of the first ROPs in the state. I am thankful for all those in our community who have continued to support and help build an outstanding program over the years. I am grateful to the teachers who have worked directly with our students and the alumni themselves for making the dream a reality as they stepped into our community as adults.



It is evident that the success of our past, and of our future, is deeply rooted in the strength of our relationships. Thank you for an amazing 50 years of partnership.

**LINDA GRANGER**  
Superintendent



# Automotive Collision and Refinishing I P

## TRANSPORTATION INDUSTRY SECTOR

SLZUSD – Math Credit  
UC "g" Course Credit  
Skills USA Competition

PPG Certification  
S/P2 Certification



Automotive Collision and Refinishing I P introduces students to professional auto collision and painting concepts, through instructional and hands-on skill development.

Students will mimic a professional work-like environment while developing soft skills including communicating effectively with others, teamwork, problem solving, and a positive work ethic.

*Selection of skills and knowledge learned throughout the course:*

- Estimation strategies
- Refinishing techniques
- Safety procedures
- Auto body painting
- Industry tools and equipment
- Auto-body structure and restoration

As evidence of training, students will develop a portfolio, which will serve as a resource manual when entering the professional world.

# Automotive Collision and Refinishing II

## TRANSPORTATION INDUSTRY SECTOR

Skills USA Competition

PPG Certification  
S/P2 Certification



Automotive Collision and Refinishing II expands students' knowledge, experience, and workplace readiness by assuming the leadership roles of manager, instructor, and mentor associated within the industry.

Students apply technology and use teamwork to enhance productivity while leading shop operations and being asked to "train" their crews on surface preparation, painting and detailing, project planning, and design skills.

*Selection of skills and knowledge learned throughout the course:*

- Further development of first year skills and work ethic
- Organizational and leadership skills
- Advanced skills needed to enter the workforce
- Estimation strategies
- Refinishing techniques
- Safety procedures
- Industry tools and equipment
- Auto-body structure, restoration, welding, and painting

Students will finish this program with the skill set to become estimators, front office management, and with more classes, the possibility of being certified as non-structural technicians, steel structural technicians, aluminum structural technician and refinish technicians.



# Automotive Technology I P

## TRANSPORTATION INDUSTRY SECTOR

SLZUSD – Math Credit  
UC “g” Course Credit  
College Credit Available  
Skills USA Competition

S/P2 Certification  
All Data Certification  
Shop Key Certification  
Valvoline Certification  
ASE Exam Preparation



Automotive Technology I P introduces students to standard automotive repair and maintenance, through online industry safety training, instructional content and hands-on shop work.

Students will learn how to maintain a shop, and work in teams to diagnose and solve problems. They will become familiar with the systems of a car, the names of parts, and how each system informs and interacts with the other.

*Selection of skills and knowledge learned throughout the course:*

- Function and name of auto parts
- Front end alignment
- Safety, fasteners, hand tool identification and usage
- Vehicle systems
- Electrical fundamentals
- Service information access and use
- Automotive chemical and fluid applications
- Hazardous waste handling
- General shop equipment usage
- Vehicle servicing
- Troubleshooting, Analysis, and Shop Practices

Students will be exposed to the automotive business and industry, and be provided with entry-level job skills.

# Automotive Technology II P

## TRANSPORTATION INDUSTRY SECTOR

UC “g” Course Credit  
College Credit Available  
Skills USA Competition

S/P2 Certification  
All Data Certification  
Shop Key Certification  
Valvoline Certification  
ASE Exam Preparation



Automotive Technology II expands students’ knowledge, experience, and workplace readiness by assuming the leadership roles of manager, instructor and mentor.

Students will apply appropriate technical skills and academic knowledge while leading shop operations and being asked to “train” their crews. They will develop and utilize critical thinking skills to recognize and thoughtfully investigate the root causes of problems, and persevere in solving them.

*Selection of skills and knowledge learned throughout the course:*

- Advanced technical skills and essential worker traits
- Further development of work ethic organizational and leadership skills
- Diagnostics and repair

For students seeking specialized training designed to meet standards set by the National Institute for Automotive Service Excellence (ASE).



# Careers in Education I P

## EDUCATION, CHILD DEVELOPMENT AND FAMILY SERVICES INDUSTRY SECTOR

UC "g" Course Credit  
College Credit Available

Internship Placement  
CA Child Development Permit  
American Heart Association -BLS (Basic Life Support) and  
Cardiopulmonary Resuscitation (CPR)  
First Aid Infant and Child  
Automated Electronic Defibrillator (AED)



Careers in Education I P introduces students to the developmental stages of children from conception through adolescence, including the principle theories of development and their application.

Students explore broad research about human behavior, helping them understand their own behavior, as well as that of children at a deeper level. Students meet in-class two days a week at 3 hours per day and participate in the internship component 3 days per week.

*Selection of skills learned throughout the course:*

- Human behavior as it relates to yourself and others
- Growth & development of children
- Mechanisms of learning
- Memory and Intelligence
- Thinking and processing

Students will be exposed to job career opportunities in the education field, a variety of teaching techniques, employment preparation, and safety precautions as they apply to school emergency procedures.

# Careers in Education II P

## EDUCATION, CHILD DEVELOPMENT AND FAMILY SERVICES INDUSTRY SECTOR

UC "g" Course Credit  
College Credit Available

Internship Placement  
CA Child Development Permit  
American Heart Association -BLS (Basic Life Support) and  
Cardiopulmonary Resuscitation (CPR)  
First Aid Infant and Child  
Automated Electronic Defibrillator (AED)



Careers In Education II P students will identify their personal educational values while learning more about cognitive, emotional, psychological, social, and physical development. This program provides students with classroom and work-based training, including placements to assist teachers in preschool, elementary school, and special education programs.

*Selection of skills and knowledge learned throughout the course:*

- Developmentally appropriate lesson planning
- Hands-on approaches as they apply to theory
- Learning how to meet children at their level, and how to scaffold and build upon what they know
- Learning how to meet the whole needs of children, both academic and socio-emotional well being
- Problem solving
- Critical thinking
- Child guidance

This program provides students with classroom and work-based training where they receive college/career training in early childhood education.

# Careers in Law, Forensics, and Public Safety I P

PUBLIC SERVICES INDUSTRY SECTOR UC "G" COURSE CREDIT

SLZUSD – Science Credit  
HUSD – Science Credit  
UC "g" Course Credit  
College Credit Available  
Skills USA Competition



Careers in Law, Forensics, and Public Safety I P introduces students to three different fields of study: Criminal Justice, Criminal Justice Operations, and Forensics.

Students are introduced to the history, structure, and function of the American legal system and learn criminal justice operations and procedures. They will use hands-on applications while learning forensic science and crime scene investigation methods.

*Selection of skills and knowledge learned throughout the course:*

- Participate in physical agility training as required by the police department
- People management and crowd control
- Processing a crime scene
- Conducting interviews
- Crime procedures and photograph
- Introduction to crime scene investigation
- Physical evidence in solving crimes
- Dusting and lifting fingerprints
- Evidence collecting and processing methods

Students will explore current public safety career opportunities including as a sheriff's tech, police aide, or in private security.

# Careers in Law, Forensics, and Public Safety II P

PUBLIC SERVICES INDUSTRY SECTOR UC "G" COURSE CREDIT

UC "g" Course Credit  
College Credit - application pending for this course  
Skills USA Competition



Careers in Law, Forensics, and Public Safety II P expands students' knowledge, experience, and workplace readiness by assuming the leadership roles of manager, instructor and mentor.

Students will lead an investigative team in field operations, and lead drills that focus on the area of forensics.

*Selection of skills and knowledge learned throughout the course:*

- Lead investigation team and drills
- Further development of work ethics
- Methods of organization
- Leadership skills and mentoring first year students
- Greater appreciation of the career development process
- Confidence in effective communication and interpersonal skills
- Problem solving
- Various uses of technology and its applications

Students will explore current public safety career opportunities including as a sheriff's tech, police aide, or in private security.

# Construction Technology I P

## BUILDING TRADES AND CONSTRUCTION INDUSTRY SECTOR

SLZUSD – Math Credit  
UC “g” Course Credit  
College Credit Available  
Skills USA Competition



Construction Technology I P introduces students to residential and commercial construction.

Students will learn basic construction skills through project work and applied mathematics. They will acquire these skills through real world problem solving, executing small to large construction projects. Soft skills development is integrated throughout the course and includes communication, work ethic, interpersonal and team skills, critical thinking and related employment skills.

*Selection of skills and knowledge learned throughout the course:*

- Construction related math and measurement
- Developing scaled drawings
- Framing, drilling, pouring concrete, trusses, roofing
- Following technical specifications and blueprint reading
- Building material choices, functions, and, uses
- Safety and proper use power tools

Students are prepared to move into careers building and remodeling homes, apartment buildings, industrial buildings, warehouses, office buildings, churches, schools, and parks and recreation fields, as well as working on large-scale projects including the development of highways, stadiums, streets, bridges, airports.

# Construction Technology II P

## BUILDING TRADES AND CONSTRUCTION INDUSTRY SECTOR

UC “g” Course Credit  
Skills USA Competition



Construction Technology II P expands students' construction knowledge, experience, and workplace readiness by assuming the leadership roles of manager, instructor and mentor associated with the construction industry.

Students will lead field operations and will be asked to “train” their crews with projects such as building a small home.

*Selection of skills and knowledge learned throughout the course:*

- Further development of student work ethic
- Organizational & leadership skills
- Cost estimating
- Cutting, fastening, and fitting various materials
- Hand and power tools
- Following technical specifications and blueprint reading

Students are prepared to move into careers building and remodeling homes, apartment buildings, industrial buildings, warehouses, office buildings, churches, schools, and parks and recreation fields, as well as working on large-scale projects including the development of highways, stadiums, streets, bridges, airports.



# Culinary Science I P

## HOSPITALITY, TOURISM AND RECREATION INDUSTRY SECTOR

UC "g" Course Credit  
College Credit Available  
ProStart Competition

Servsafe Food Handler's Certification



Culinary Science I P introduces students to theories and hands-on experience in the field of culinary arts including an introduction to the world of food preparation, travel, and the tourism industry.

*Selection of skills and knowledge learned throughout the course:*

- Fundamentals of food preparation and presentation
- Kitchen safety and sanitation
- Nutrition
- Menu development
- Event planning
- Food-cost & control
- Customer service and entrepreneurship
- Management skills
- Culinary skills
- Knife skills
- Pastry

Students will acquire culinary skills needed for careers in the restaurant, travel, catering, and food service industries.

# Culinary Science II P

## HOSPITALITY, TOURISM AND RECREATION INDUSTRY SECTOR

UC "g" Course Credit  
ProStart Competition

Servsafe Food Handler's Certification



Culinary Science II P expands students' knowledge and skills by providing the opportunity to work in an industry grade commercial kitchen setting, as well as opportunities to interact with industry partners and experts via guest presentations and/or visiting local industries.

Students will participate by completing a variety of advanced level hands-on tasks and longer projects that serve to assist them in demonstrating competency in all phases of food service and food production.

*Selection of skills and knowledge learned throughout the course:*

- Fundamentals of food preparation and presentation
- Kitchen safety and sanitation
- Nutrition
- Menu development
- Event planning
- Food-cost & control
- Customer service and entrepreneurship
- Management skills
- Culinary skills
- Knife skills
- Pastry

Students will participate in a capstone project and a series of labs that progress toward mastery of the college and career readiness skills, and competencies for an entry level position. Students will acquire entry level culinary skills needed for careers in the restaurant, travel, catering, and food service industries.

# Cybersecurity I P

## INFORMATION AND COMMUNICATION TECHNOLOGIES SECTOR

SLZUSD Math Credit  
UC "g" Course Credit  
College Credit Available  
Skills, USA Competition

Google IT Support Professional Certificate  
CompTIA A+  
CISCO CCNA Cyber Ops Certification



Cybersecurity I P introduces students to careers in network administration and information technology support services with a focus on cybersecurity. Students will receive hands-on experience that covers the fundamentals of computer hardware and software, and advanced concepts such as security, networking, and the responsibilities of an IT professional. In collaboration with Google, the Google IT Support Professional Certificate will be offered. This course is the first in a five course program. It is a hands-on, online program designed to prepare beginner learners for entry-level jobs or continued education in information technology support. The program is exclusively developed by Google.

*Selection of skills and knowledge learned throughout the course:*

- Troubleshooting
- Customer service
- Networking
- Operating systems
- System administration
- Security

# Cybersecurity II P

## INFORMATION AND COMMUNICATION TECHNOLOGIES SECTOR

College Credit Available  
UC "g" Course Credit  
Skills, USA Competition

CompTIA A+  
CISCO CCNA Cyber Ops Certification



Cybersecurity II P builds on the technical skills and knowledge students acquired in Cybersecurity I.

Students will be prepared for post-secondary information technology majors and for careers in network administration and information technology support services with a focus on cybersecurity.

*Selection of skills and knowledge learned throughout the course:*

- Architecture
- Structure
- Functions
- Components
- Models of the Internet
- Computer networks
- Principles and structure of IP addressing
- Fundamentals of ethernet concept

Curriculum content is designed to prepare students for careers in Cybersecurity and Information and Communications Technology.

# Dental Assisting I P

## HEALTH SCIENCE AND MEDICAL TECHNOLOGY INDUSTRY SECTOR

SLUSD & SLZUSD Health & Safety Credit  
HUSD, SLUSD, & SLZUSD Science Credit  
UC "d" Course Credit

Infection Control Certificate  
X-ray Certificate



Dental Assisting I P introduces students to the fundamentals of dental assisting.

Students work independently, as well as collaboratively studying topics such as Infection Control, Dental Anatomy, Dental Charting, Clinical Sciences, and Dental Materials and Anatomy and Physiology.

*Selection of skills and knowledge learned throughout the course:*

- Plaque and Teeth whitening
- Making teeth impressions
- Conducting Fluoride treatments
- Conduction coronal polish treatments
- Taking X-rays

Students are prepared for entry-level employment as chairside dental assistants.

# Dental Assisting II P

## HEALTH SCIENCE AND MEDICAL TECHNOLOGY INDUSTRY SECTOR

UC "g" Course Credit

Internship  
Infection Control Certificate  
X-ray Certificate  
RDA Exam Preparation



Dental Assisting II P expands on the principles and techniques presented in Dental Assisting I by delving into more advanced concepts.

Students will study more advanced concepts in dentistry and will be assessed through written exams and "hands-on" skills. Each student will complete a 6-week unpaid internship in a dental office in the community.

*Selection of skills and knowledge learned throughout the course:*

- Ethics and dental law
- Radiography
- Pharmacology
- Business management
- 400 hour externship at a dental office in the community

Students are prepared for entry-level employment as chairside dental assistants.



# First Responder (Fire Science/EMT) I P

## PUBLIC SERVICES INDUSTRY SECTOR

SLZUSD – Science Credit  
UC “g” Course Credit  
College Credit Available  
Skills USA Competition

Basic Life Support (BLS)  
Cardiopulmonary Resuscitation (CPR)  
First Aid  
Automated External Defibrillator (AED)  
Community Emergency Response Team (CERT)



First Responder (Fire Science/EMT) I P introduces students to the skills and knowledge required of firefighters, Emergency Medical Technicians (EMT) and paramedics.

Students study the philosophy and history of fire protection; review of municipal fire defenses; examination of the organization and function of Federal, State, County, and private protection agencies and survey of professional fire protection career opportunities.

*Selection of skills and knowledge learned throughout the course:*

- Fire response
- First responder training
- Physical agility training required by local fire departments
- Fired department ride-alongs
- Fire station visits and fire fighter coaches
- Medical Terminology
- Basic anatomy and physiology
- Disaster Preparedness Training
- Psychological
- Basic CPR and First Aid
- Emergency Protocols
- Universal Precautions

Students can complete the first course requirement for the Chabot Fire Science Certificate program.

# First Responder (Fire Science/EMT) II P

## PUBLIC SERVICES INDUSTRY SECTOR

UC “g” Course Credit  
Skills USA Competition

Basic Life Support (BLS)  
Cardiopulmonary Resuscitation (CPR)  
First Aid  
Automated External Defibrillator (AED)  
Community Emergency Response Team (CERT)

First Responder (Fire Science/EMT) II P expands students’ knowledge, experience, and workplace readiness by assuming the leadership roles on their teams, acting as instructor and mentoring new students.



Students learn fire service related subjects including the history of fire service, fire department organizations, fire behavior, firefighting tactics and strategies, hazardous materials, fire safety, tools and equipment, fire prevention, fire protection systems, codes and standards, fire service occupations, and related subjects. They will lead first responder units and will be asked to “train” their crews. Further development of work ethic, organizational, and leadership skills will provide these students with the advanced skills needed to enter the workforce.

*Selection of skills and knowledge learned throughout the course:*

- Emphasis on personal integrity
- Self discipline
- Goal setting
- Effective oral and written communication skills
- Interpersonal relationships
- Physical fitness & health
- Effective problem solving skills
- Strong academic skills
- Emergency Protocols
- Universal Precautions

Students will complete a 12 hour ride along with an Emergency Service provider.



# Medical Careers I P

## HEALTH SCIENCE AND MEDICAL TECHNOLOGY INDUSTRY SECTOR

SLUSD & SLZUSD – Science and Health Credit  
CVUSD & HUSD – Science Credit  
UC “g” Course Credit  
College Credit Available

American Heart Association -BLS (Basic Life Support for Healthcare providers) and Cardiopulmonary Resuscitation (CPR)  
Medical Assistant Certificate  
NHA Preparation for CCMA and CET



Medical Careers I P introduces students to basic medical terminology, as well as human anatomy and physiology.

Students will develop clinical and laboratory skills (immunizations, blood draw, urinalysis, EKGs), and administrative skills, as well as learn about HIPAA (Health Insurance Portability and Accountability Act), laws governing health care, workplace skills, workplace safety, and managerial skills to be successful in the medical field.

*Selection of skills and knowledge learned throughout the course:*

- Taking vital signs
- AHA BLS/CPR (Cardiopulmonary Resuscitation)
- AED (automated external defibrillator)
- First Aid
- OSHA (Occupational Safety and Health Administration) standards for handling bodily fluids, infection control
- Resume writing and interview skills

Students in this course will explore careers in health professions by having the option to be placed in an internship 1-4 days per week. The course will also prepare students for the National Health Association (CCMA) exam for Medical Assistants.

# Medical Careers II P

## HEALTH SCIENCE AND MEDICAL TECHNOLOGY INDUSTRY SECTOR

College Credit Available  
UC “g” Course Credit  
Skills USA Competition

American Heart Association - BLS (Basic Life Support for Healthcare providers) and Cardiopulmonary Resuscitation (CPR)  
Medical Assistant Certificate  
NHA Preparation for CCMA and CET



Medical Careers II P expands students' medical vocabulary, improves their knowledge of anatomy and physiology, and helps them explore careers in the health professions.

Students will be introduced to various specialties and receive a reintroduction to HIPAA (Health Insurance Portability and Accountability Act).

*Selection of skills and knowledge learned throughout the course:*

- Students will participate in internships 3-4 days per week, and be prepared to complete the NHA (National Health Association) CCMA (Certified Clinical Medical Assistant) Examination.

# Merchandising I

## MARKETING, SALES AND SERVICE INDUSTRY SECTOR

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Pre-requisite: Special Education or  
Department of Rehabilitation Client

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Merchandising introduces Special Education students to workforce readiness skills, life skills, and social skills with the intention of helping them become more independent. Merchandising students must have an IEP with transition goals written into the plan.

Merchandising students will work with the "School to Career" curriculum and will move to a work-based learning site. Students will learn on the job and be paid for their internship.

*Selection of skills and knowledge learned throughout the course:*

- How to find a job
- Skills for success
- Career planning
- Job satisfaction awareness

# Merchandising II

## MARKETING, SALES AND SERVICE INDUSTRY SECTOR

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Pre-requisite: Special Education or  
Department of Rehabilitation Client

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Merchandising II students will continue to build upon the Merchandising I skills. Students who are ready are offered the opportunity to develop advanced leadership skills by becoming team leaders in the classroom. They will aid the teacher as an assistant fielding questions and helping organize daily classroom activities.

Merchandising II students will continue to work with the "School to Career" curriculum and will move to a work-based learning site early in the school year. Students will gain an understanding of leadership dynamics in the workplace and the effect of good leadership. They will continue to develop their ePortfolio and will gain an understanding of transition resources that will support their post-secondary success.

*Selection of skills and knowledge learned throughout the course:*

- Interview skills
- Transition skills
- Resume writing skills
- Leadership skills
- Computer Technology skills
- Entrepreneurship skills
- Using credit and budget planning

# Welding Technology I P

## MANUFACTURING AND PRODUCT DEVELOPMENT INDUSTRY SECTOR

SLZUSD Math Credit  
UC "g" Course Credit  
College Credit – pending application  
Skills USA Competition



Welding Technology I P introduces students to welding through an integration with mathematics, science, and writing.

Students will study theory and practical applications pertaining to a variety of welding processes, as well as metal forming and fabrication.

*Selection of skills and knowledge learned throughout the course:*

- Blueprint reading
- Welding terminology
- Gas metal arc & Gas Tungsten Arc Welding
- Oxy-Acetylene & Plasma Arc Cutting
- Metal Fabrication and Tool use
- Shielded Metal Arc & Flux Cored Arc Welding
- All welding positions, electric arc welding
- Hands-on experience to reinforce instruction
- Patience, persistence, and practice

This course is designed to provide students with entry-level skills required in the various metalworking occupations.

# Welding Technology II P

## MANUFACTURING AND PRODUCT DEVELOPMENT INDUSTRY SECTOR

UC "g" Course Credit  
College Credit – pending application  
Skills USA Competition



Welding Technology II P expands students' knowledge, experience and training in critical thinking and leadership pertaining to welding and metal fabrication.

Students will better understand various employment opportunities such as engineering, metal fabrication, and materials joining.

*Selection of skills and knowledge learned throughout the course:*

- Welding inspection
- Sales
- Management
- Advanced experience in joining and fastening materials
- Observation and Evaluation of welded products

Students will be prepared for a variety of careers including as a certified welder, engineer, and inspector.

# PARTICIPATING SCHOOL SITES

FOR MORE INFORMATION, CALL EDEN AREA ROP AT (510) 293-2900 OR (510) 293-2973

## CASTRO VALLEY UNIFIED SCHOOL DISTRICT

**CASTRO VALLEY HIGH SCHOOL**  
19400 Santa Maria Avenue  
Castro Valley, CA 94546  
(510) 537-5910

### **AUTO 1-2**

**Grades 9-12**

Prerequisites: None

Description: Auto 1-2 is an introductory course that explores the modern automobile, its major systems, and careers in the Transportation Industry. The emphasis of this course is on entry level skills and car owner knowledge. Topics will include the safety, tools, tires, wheel alignments, multipoint inspections, engines, transmissions, suspensions, steering, brakes, and electrical systems including computer controls. The first part of the course is primarily in the classroom in conjunction with hands-on activities in the shop to apply the concepts learned in the classroom. Second part of the course is hands-on activities including engine repair, intro to welding, and intro to electrical repair.

### **ADV AUTO MECHANICS** **Grades 11-12**

Prerequisites: None; however, Auto 1-2 is recommended.

Description: This course provides students the opportunity to develop entry level job skills in the transportation industry. Instruction includes an emphasis on time management and soft skills. Units of instruction include basic fundamentals, maintenance, brakes, steering/suspension, engine, transmission and electrical. Students learn through both individual and collaborative team activities, projects and problem solving. Class may be repeated for credit with instructor's approval.

### **BIOTECHNOLOGY (HABIT)** **Grades 11-12**

Prerequisites: Completion of Biology 1-2 and Integrated II with a "C" or better. Completion of, or concurrent enrollment in, Chemistry with a "C" or better.

Description: This course is designed to introduce students to the concepts and practices of modern biotechnology, thus enabling them to further pursue academic and industrial opportunities. The emphasis is on practical methods and basic concepts of molecular biology, utilizing modern equipment, and state-of-the-art protocols.

## **ECONOMICS OF BUSINESS I P** **Grades 11-12**

Prerequisites: Students who have taken Marketing Economics with a minimum "B" semester grade are eligible to enroll in Econ of Business.

Description: Economics of Business is a two-semester course. Fall semester focuses on microeconomics concepts: supply & demand, business organization and competition, international trade, the marketing process, management structures, and the Corporate Form of Business in the US. The Junior Achievement Corporation (with corporate sponsors) is a major portion of first semester. Second semester focuses primarily on Macroeconomics with volunteers from the Venture Capital Roundtable of Silicon Valley to assist students with Business Plans, International Marketing/Business Plans, Market Research Projects, and other written events for DECA competitions.

### **CISCO 1 ADV. TECH** **Grades 10-12**

Prerequisites: IT Essentials completed

Description: This course uses industry based curriculum developed by the CISCO Corporation and is designed to prepare students for employment as computer network designers, installers, and network maintenance and technology support technicians. Students exiting the program may take certification tests through the CISCO Certified Internetworking Association.

Internet Engineering is an interdisciplinary course designed to prepare students for post-secondary success in the Information and Communication Technologies (ICT) field. The course engages students with studies of: the history and implications of network communications; the protocols which make the Internet possible; how networks provide access to services; and college and career preparation in the ICT field. This course integrates the theory and application of network communications, and exposes students to media that invites them to consider how Internet engineers think, design, and solve problems.

Nearly the entire course will be using online materials. Students learn well by doing and as such the course consists of hands-on lab sessions as well. The course is articulated with Chabot College and earns the student college credit while still in high school.

## **CISCO 2 NET ENGINEERING Grades 10-12**

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Prerequisites: CCNA-1 Completed

Description: This course uses industry based curriculum developed by the CISCO Corporation and is designed to prepare students for employment as computer network designers, installers, and network maintenance and technology support technicians. Students exiting the program may take certification tests through the CISCO Certified Internetworking Association.

In RSE, students are introduced to various facets and functions of routers, including operating systems interface (OSI) model, wide area networks (WANs), router components, startup, setup, and use of routers, input-output system (IOS), transportation control protocol (TCP/IP), and routing protocols. Students are also taught the fundamental principles of Cybersecurity Essentials. Worksite learning is an optional component of this class and is available to eligible students.

Nearly the entire course will be using online materials. Students learn well by doing and as such the course consists of hands-on lab sessions as well. The course is articulated with Chabot College and earns the student college credit while still in high school.

## **INFORMATION TECHNOLOGY ESSENTIALS GRADES 9-12**

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This course introduces students to computer applications for business and home use. Topics covered include hardware and common software applications such as Word, Excel, PowerPoint, and Access. Plus an understanding of an Internet Browser for the World Wide Web, HTML, personal computer, and familiarization with its capabilities in a Windows environment. Typing skills and web page building will be included in the course.

## **FOOD AND NUTRITION Grades 10-12**

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Prerequisite: None

Description: A study of basic principles of food preparation which will include instruction in nutrition, purchasing, food handling, safety, sanitation, serving, and storage of food. Food-related careers will be explored. Laboratory includes preparation and evaluation of individual food products.

## **HOSPITALITY AND CULINARY ARTS GRADES 10-12**

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Prerequisite: Must have taken Foods and Nutrition

Description: This course will provide an advanced study of the principles of food preparation and exploration of cuisines of the world as it relates to the hospitality and the food service industry. In addition, students will have the opportunity to apply their culinary and hospitality skills while learning to operate and manage all aspects of a small food service business. This capstone course provides a solid foundation for a wide range of career paths, including a small food service business, hospitality, food science, dietetics and nutrition.

## **MARKETING ECONOMICS I P Grades 11-12**

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This course provides students with an academically challenging course of study that allows students to demonstrate mastery of the course objectives. Marketing Economics is a course that focuses on the history and study of financial markets and institutions. The primary objective of this course will be to help students obtain a better understanding of these and other important financial issues facing citizens and government policy-makers both here in the U.S. and abroad. The overarching goal of these courses is to develop each students critical thinking, reading, and writing skills. An in-depth study of the economy of the 21st century and aspects of marketing are examined. Economic and marketing concepts, such as database management, advanced communications strategies, decision-making for the market place, and resource allocation and product distribution, are emphasized. Students will explore the utilization of traditional advertising, integrated marketing communications, and new media in local, regional, national and global markets. Students will be able to demonstrate critical thinking skills, to evaluate ideas and information, and to analyze and synthesize qualitative and quantitative evidence (both in the classroom and in the community). This course will enable students to establish a breadth of understanding of history and economics. Student will also be required to complete class and homework research assignments.

## **PHOTOGRAPHY Grades 11-12**

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Prerequisite: None

Description: This course is an introduction to basic photography skills. The course briefly explores "traditional" darkroom processes, but emphasizes digital photography, digital image workflow and management, including scanning, editing, image correction and output. Both the "traditional" and digital platforms explore the image making techniques used in fine art and commercial photography. Students are expected to acquire an understanding of camera operations and "visual literacy" through the exploration of Photography. In addition to photography, the course emphasizes critical thinking, problem solving, self-directed and collaborative work skills as well as the leadership skills necessary for entry into advanced digital-media training at the college level, or workplace. Students will leave the class with a portfolio, a resume listing the relevant skills they have learned, and basic interviewing techniques.

## **ADV PHOTOGRAPHY Grades 12**

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Prerequisite: Students must have completed at least one previous year-long course in photography with a grade of "C" or better or instructor approval.

Description: The Advanced Photography course extends the students' basic photography, problem solving, leadership and visual literacy skills. Additionally, students will be introduced to advanced photographic techniques, including: use of artificial light sources, studio lighting, location lighting, and digital image management and editing techniques using professional-standard software. Students will be required to refine their digital printing and Photoshop skills to produce color and black & white images suitable for portfolio presentation or exhibition. Students



will also learn to create images suited to the specific needs of a "client" and create multimedia presentations that can be easily adapted for web-based presentation. Students will also create a professional resume and a portfolio consisting of black & white and/or color images in a digital-format that can be used to apply for entry-level internships, jobs or admittance to a college-level photography course.

## HAYWARD UNIFIED SCHOOL DISTRICT

**HAYWARD HIGH SCHOOL**  
1633 East Avenue  
Hayward, CA 94541  
(510) 723-3170

### **ENTREPRENEURSHIP I P      Grades 10-12**

Students will identify the fundamentals of business creation, the personal attributes needed to be a successful entrepreneur, and will research various business opportunities. Topics covered include the characteristics of an entrepreneur, discovering entrepreneurial opportunities, and researching the analyzing domestic, global, and market trends. The course culminates with the student developing a hypothetical business plan to implement their unique venture that conforms to all applicable governmental laws and regulations. This course is sponsored by ROP.

### **ENTREPRENEURSHIP II P      Grades 11-12**

Entrepreneurship II is a College prep elective course that analyzes and applies the steps for new venture creation. Using Network For Teaching Entrepreneurship (NFTE) Curriculum, the course is designed to provide students with an understanding of the external drivers and internal levels of business launching, start-ups, and financing. It is structured in modules that form the foundation for students' creation of a business plan, and investor elevator pitch. Concepts covered include entrepreneurial mindset, business structure, opportunity recognition, value proposition and market research. Students will learn to apply business theory to their own ventures, marshaling available resources to gather relevant information. By using extensive scenario analysis through classroom projects and group work, students will develop critical thinking and problem structuring skills. Experiential course activities include product development, work-based learning experiences, and participation in regional and national competitions. This course is sponsored by ROP.

### **PHOTOGRAPHY I P      Grades 10-12**

This course trains students for various areas of specialization within the photography industry. This course is designed to integrate knowledge and hands-on learning through the production, processing, and editing of photography projects. The essentials of photography include editing techniques and aesthetics, lighting sets and background development. Those who choose to take an additional year will have the opportunity to work independently for in-depth achievement beyond the basics. They will set goals for completion of projects conducive to critique and exhibition. This course is sponsored by ROP at HHS & MEHS.

### **PHOTOGRAPHY II P      Grades 10-12**

Extension to basic photography course. Advanced students do independent regular photo projects and learn Photoshop.

### **SPORTS MEDICINE I P      Grades 10-11**

Students explore human anatomy and physiology, and acquire a strong foundation for further study of these sciences. Students learn how systems of the body function and interact through physical activity, and develop a thorough understanding of the structure and function of the musculoskeletal system. This knowledge serves as a platform for understand the physiological response to injury and improving performance. Students will apply skills learned in the classroom as well as in the field practicum.

Students will be able to: a. Relate/apply their knowledge of anatomy and physiology - explore through laboratory activities designed to illustrate and expand upon concepts. b. Collect and interpret data, and finally form and communicate conclusions in lab reports and group discussions. c. Research and present anatomy and its relevance to a specific injury d. Demonstrate skills in oral and written communication by using professional terminology, developing active listening skills, and writing effectively in a variety of different formats e. Demonstrate the ability to be critical, complex and creative thinkers by completing challenging group and individual projects. f. Study and work productively, both as individuals and team members, by demonstrating initiative through various projects and assessments. g. Gain knowledge of career pathways in the medical and science field as well as the skills, knowledge and education necessary to attain a degree in this discipline.

### **THEATER I P      Grades 9-12**

This course will contain units from pantomime, improvisation, scene study, theater games and imagination exercises, vocal warm-ups and voice study, reading plays, technical theater, theater history, costuming and playwriting. The student should get a well-rounded introduction to the theater and an understanding of the interaction of the elements of theater production.

### **THEATER II P      Grades 10-12**

This advanced course is standards driven and covers acting, directing, improvisational theater, political theater, movement, voice, dramaturgy, theory, audition techniques, and playwriting. Emphasis is placed on performance as well as the creative process, with strong dedication to innovative expression and imagination. Theater II will also include the technical aspects of stagecraft, and an expansion of knowledge and skills acquired in Theater I.

This advanced course is standards driven and covers acting, directing, improvisational theater, political theater, movement, voice, dramaturgy, theory, audition techniques, and playwriting. Emphasis is placed on performance as well as the creative process, with strong dedication to innovative expression and imagination. Theater II will also include the technical aspects of stagecraft, and an expansion of knowledge and skills acquired in Theater I.

## **WOOD TECHNOLOGY I P      Grades 10-12**

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This is a beginning woodworking class encompassing the use of hand tools and machines. Emphasis is placed on safety and good workmanship habits. Students will spend class time developing plans, figuring costs and layout of materials, and seeking pride in craftsmanship through well-designed woodworking projects. Instruction will include lectures, demonstrations, and hands-on building experiences. Students will be introduced to different methods of woodworking used in furniture, cabinetry, framed construction, and woodcrafts. This is a project-based class where students learn by doing and includes many hours of hands-on building experience through constructing required projects. Students will experience assignments at an individual and group level, with opportunities for advisory positions. Students will also have the opportunity to design and build projects of their own choosing. Students will build a job skills portfolio and learn about careers in the industrial trades. This course is sponsored by ROP.

## **WOOD TECHNOLOGY II P      Grades 10-12**

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This is an advanced course where students will continue advancing their experience in safety, operations, and maintenance of woodworking machines. Emphasis will be placed on expanding skills and techniques involved in the more advanced designing and problem solving procedures. Students will have the opportunity to spend many hours on a single project in individual and team settings. Methods of woodworking in the areas of furniture, cabinetry, framed construction, and woodcraft projects will continue to be investigated. This course is sponsored by ROP.

## **YEARBOOK                      Grades 9-12**

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Yearbook publication is the class that prepares and publishes the school yearbook. Skills reinforced are paragraph writing, revision of copy, precise use of language, and organization of copy. Planning and preparing the yearbook for publication and distribution also includes artwork and photography. Students develop business skills by selling advertisements and subscriptions.

**MT. EDEN HIGH SCHOOL**  
2300 Panama Street  
Hayward, CA 94544  
(510) 723-3180

## **ENTREPRENEURSHIP I P**

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Students will identify the fundamentals of business creation, the personal attributes needed to be a successful entrepreneur, and will research various business opportunities. Topics covered include the characteristics of an entrepreneur, discovering entrepreneurial opportunities, and researching the analyzing domestic, global, and market trends. The course culminates with the student developing a hypothetical business plan to implement their unique venture that conforms to all applicable governmental laws and regulations. This course is sponsored by ROP.

## **ENTREPRENEURSHIP II P**

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Entrepreneurship II is a College prep elective course that analyzes and applies the steps for new venture creation. Using Network For Teaching Entrepreneurship (NFTE) Curriculum, the course is designed to provide students with an understanding of the external drivers and internal levels of business launching, start-ups, and financing. It is structured in modules that form the foundation for students' creation of a business plan, and investor elevator pitch. Concepts covered include entrepreneurial mindset, business structure, opportunity recognition, value proposition and market research. Students will learn to apply business theory to their own ventures, marshaling available resources to gather relevant information. By using extensive scenario analysis through classroom projects and group work, students will develop critical thinking and problem structuring skills. Experiential course activities include product development, work-based learning experiences, and participation in regional and national competitions. This course is sponsored by ROP.

## **PHOTOGRAPHY I**

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This course trains students for various areas of specialization within the photography industry. This course is designed to integrate knowledge and hands-on learning through the production, processing, and editing or photography projects. The essentials of photography include editing techniques and aesthetics, lighting sets and background development. Those who choose to take an additional year will have the opportunity to work independently for in-depth achievement beyond the basics. They will set goals for completion of projects conducive to critique and exhibition. This course is sponsored by ROP.

## **PHOTOGRAPHY II**

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Extension to basic photography course. Advanced students do independent regular photo projects and learn Photoshop. This course is sponsored by ROP.

## **SPORTS MEDICINE I P**

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Students explore human anatomy and physiology, and acquire a strong foundation for further study of these sciences. Students learn how systems of the body function and interact through physical activity, and develop a thorough understanding of the structure and function of the musculoskeletal system. This knowledge serves as a platform for understand the physiological response to injury and improving performance. Students will apply skills learned in the classroom as well as in the field practicum.

Students will be able to: a. Relate/apply their knowledge of anatomy and physiology - explore through laboratory activities designed to illustrate and expand upon concepts. b. Collect and interpret data, and finally form and communicate conclusions in lab reports and group discussions. c. Research and present anatomy and its relevance to a specific injury d. Demonstrate skills in oral and written communication by using professional terminology, developing active listening skills, and writing effectively Students explore human anatomy and physiology, and acquire a strong foundation for further study of these sciences. Students learn how systems of the body function and interact through physical activity, and develop a thorough understanding of the structure and function



of the musculoskeletal system. This knowledge serves as a platform for understanding the physiological response to injury and improving performance. Students will apply skills learned in the classroom as well as in the field practicum.

Students will be able to: a. Relate/apply their knowledge of anatomy and physiology - explore through laboratory activities designed to illustrate and expand upon concepts. b. Collect and interpret data, and finally form and communicate conclusions in lab reports and group discussions. c. Research and present anatomy and its relevance to a specific injury d. Demonstrate skills in oral and written communication by using professional terminology, developing active listening skills, and writing effectively in a variety of different formats e. Demonstrate the ability to be critical, complex and creative thinkers by completing challenging group and individual projects. f. Study and work productively, both as individuals and team members, by demonstrating initiative through various projects and assessments. g. Gain knowledge of career pathways in the medical and science field as well as the skills, knowledge and education necessary to attain a degree in this discipline.

## **SPORTS MEDICINE II P**

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This Sports Medicine II course provides an excellent opportunity for students to continue to explore their interest in the fields of health science and medicine, specifically focused toward careers in athletic training, emergency field medicine, and therapeutic services. This course is aligned with California Career Technical Education Model Curriculum Standards and is a second level course in a Sports Medicine CTE pathway. This class provides a framework of advanced skills for building on the concepts learned in Sports Medicine I. Through a lecture/lab/project-based learning format, students will acquire fundamental practical concepts of training room development; risk management; administrative and legal issues; and hands-on application of theory on evaluation, assessment, prevention, treatment, and rehabilitation of athletic injuries. Career technical education standards such as communication, career planning, technology, problem solving, safety, responsibility, ethics, academic skills, technical knowledge, and teamwork are incorporated into academic units throughout the course. Students conduct individual research with in-depth reading and writing required as well. Modern health and scientific principles of care are presented and applied in various scenarios to develop cognitive and critical thinking skills. These mockups of real life scenarios will require students to perform evaluation and treatment protocols on others in order to prepare them for real life situations.

**TENNYSON HIGH SCHOOL**  
27035 Whitman Street  
Hayward, CA 94554  
(510) 723-3190

## **BIOMEDICAL INNOVATION P      Grade 12**

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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. Students are presented with each problem in a Mission File – a document that includes a case brief, a list of completion tasks, links to available resources, as well as a reflection section. Working through the missions not only exposes students to current issues in biomedical science, but it also provides skills-based instruction in research and experimentation – tools students will use to design innovative solutions to real-world problems. Students will use what they learn in these missions as they develop and implement their independent project at the end of the year. A teacher may use additional resources in the community – the guidance of other teachers in the school, the advice of scientists or biomedical professionals, or the knowledge presented in scientific literature to help students achieve each goal.

## **ENTREPRENEURSHIP I P      Grades 10-12**

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Students will identify the fundamentals of business creation, the personal attributes needed to be a successful entrepreneur, and will research various business opportunities. Topics covered include the characteristics of an entrepreneur, discovering entrepreneurial opportunities, and researching the analyzing domestic, global, and market trends. The course culminates with the student developing a hypothetical business plan to implement their unique venture that conforms to all applicable governmental laws and regulations. This course is sponsored by ROP.

## **ENTREPRENEURSHIP II P      Grades 11-12**

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Entrepreneurship II is a College prep elective course that analyzes and applies the steps for new venture creation. Using Network For Teaching Entrepreneurship (NFTE) Curriculum, the course is designed to provide students with an understanding of the external drivers and internal levels of business launching, start-ups, and financing. It is structured in modules that form the foundation for students' creation of a business plan, and investor elevator pitch. Concepts Covered include entrepreneurial mindset, business structure, opportunity recognition, value proposition and market research. Students will learn to apply business theory to their own ventures, marshaling available resources to gather relevant information. By using extensive scenario analysis through classroom projects and group work, students will develop critical thinking and problem structuring skills. Experiential course activities include product development, work-based learning experiences, and participation in regional and national competitions. This course is sponsored by ROP.

## **HUMAN BODY SYSTEMS      Grade 10**

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This is the first course in the Project Lead the Way (PLTW) Biomedical Science Pathway. In this class, students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia and infectious diseases. This course is designed to provide an overview of all the courses in the Biomedical Science program and lay the scientific foundation for subsequent courses.

## **MEDICAL INTERVENTIONS      Grade 11**

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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. Utilizing 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.

## **MULTIMEDIA I      Grades 10-12**

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This is a beginning level course in multimedia production and computer technology. The course will provide students with a basic introduction to multimedia, using industry standard software and hardware. Students will learn the basic fundamentals of web design, presentation, digital image editing and basic video production/ editing. Through projects, class exercises and homework, students will learn work ethics, leadership, initiative, teamwork, self-management, and responsibility. Career path skills, such as working as a production team member, project planning and management, professional criticism, and presentation skills are introduced and practiced. The curriculum will integrate project-based learning with core academic classes in English, Social Studies, and related topics. Academic content will focus on themes related to social justice, World and American literature and historical events.

## **MULTIMEDIA II      Grades 11-12**

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This is an advanced level course in multimedia production and computer technology. It teaches advanced techniques involved in project planning, production, project completion and presentation. The course will build upon the skills learned in Multimedia I and challenge students with further skills and advanced topics. The technical aspects of the course will involve video production, editing, and streaming to the world wide web. Students will continue advanced web design production and interactive authoring. At the end of the course, students will create a digital portfolio of completed projects for personal or professional use.

## **PRINCIPLES OF BIO SCIENCE      Grade 9**

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This is the second course in the Project Lead the Way (PLTW) Biomedical Science Pathway. Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

## **SAN LEANDRO UNIFIED SCHOOL DISTRICT**

### **SAN LEANDRO HIGH SCHOOL**

2200 Bancroft Avenue  
San Leandro, CA 94557  
(510) 618-4600

## **AUTOMOTIVE TECHNOLOGY I GRADES 10-12**

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For students interested in learning about the mechanical aspects of their car, repair procedures, and the auto repair industry. The course introduces students to safety, tools, engine operation, basic engine overhaul procedures,

fuel system, electrical system and drive trains—including transmissions and differentials, brakes, suspension, steering, tires, cooling systems, and lubrication systems. Shop projects will be provided for students.

## **AUTOMOTIVE TECHNOLOGY II      GRADES 10-12**

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A shop-based study of automotive repair and maintenance. Students will experience many phases of automotive reconditioning comprised of, but not limited to: service, maintenance, and repair of engines, transmissions, suspensions (including alignment), tires, brakes, and cooling, fueling, and electrical systems. This class is primarily hands-on work.

## **BUSINESS ECONOMICS & FINANCE (E2) GRADE 12**

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This course is the second class of a two year career pathway. It is an experiential learning course which provides students with knowledge of business and global business economics. Students learn about business planning, marketing and personal finance. The students explore financial aspects of credit, money management, and risk management in a global economy. Students apply macroeconomics theory in terms of supply and demand, pricing, and marketing through various class projects. This class is held in a computer lab, which provides access to the internet and simulates a true business environment. All students complete their own personal financial plan for short, medium and long term goals. Students can participate in cooperative work experiences that provide graduation credit, and mentoring. Students are encouraged to participate in the professional youth organization known as NFTE (Networking for Teaching Entrepreneurship). This is an ROP sponsored course.

## **BUSINESS OWNERSHIP (EI)      Grade 10**

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This course is the first class of a two year career pathway. This course focuses on student development, knowledge and skills vital for careers in business and entrepreneurship. During the first semester students will learn how to write a business plan to start their own small business. This is a very creative hands-on business class that supports student creativity and ownership of ideas. Academic areas of study include, but are not limited to: business law and ethics, financial strategies, and how to overcome the challenges of business ownership. During the second semester students will take their businesses global and learn about the international business environment and its effects on small business and entrepreneurship. Students can participate in on the job cooperative training that provides high school graduation credit, mentoring and participate in the professional youth organization known as NFTE (Network for Teaching Entrepreneurship.) This is an ROP sponsored course.

## **COLLEGE/CAREER      Grade 9**

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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.

## **GRAPHICS      Grades 10-12**

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Experience the many facets of a graphics occupation by engaging in the process of design problem-solving.

Manipulate hand tools and computer applications within the Adobe Creative Suite to develop ideas that fit the parameters of a given job. While acquiring the ability to communicate ideas visually is essential, the real value of this class is the nurturing of imagination and creative thinking! Creativity statistics report that 98% of 3-5 year-olds test out as creative geniuses five years later; it's down to 32%. By the time students become teenagers; creative genius applies to only 10% of the population! And yet, creative thinking is one of the critical 21st century skills. This class provides the opportunity to access your hidden creativity!

## **MARKETING ECONOMICS I P      Grade 11**

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This course provides students with an academically challenging course of study that allows students to demonstrate mastery of the course objectives. Marketing Economics is a course that focuses on the history and study of financial markets and institutions. The primary objective of this course will be to help students obtain a better understanding of these and other important financial issues facing citizens and government policy-makers both here in the U.S. and abroad. The overarching goal of these courses is to develop each students critical thinking, reading, and writing skills. An in-depth study of the economy of the 21st century and aspects of marketing are examined. Economic and marketing concepts, such as database management, advanced communications strategies, decision-making for the market place, and resource allocation and product distribution, are emphasized. Students will explore the utilization of traditional advertising, integrated marketing communications, and new media in local, regional, national and global markets. Students will be able to demonstrate critical thinking skills, to evaluate ideas and information, and to analyze and synthesize qualitative and quantitative evidence (both in the classroom and in the community). This course will enable students to establish a breadth of understanding of history and economics. Student will also be required to complete class and homework research assignments.

## **WOOD TECHNOLOGY I      Grades 10-12**

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This course teaches skills used in the woodworking trade. Students will learn and apply skills in: woodworking, teamwork, drafting, and business. These skills will enable students to see how small and large scale manufacturing operates in the business world. Students will learn the safe use of hand and power tools, how to read technical drawings, calculate measurements using whole numbers, decimals, and fractions. Building useful and beautiful projects in wood will enable students to learn in a “hands on” environment.

## **WOOD TECHNOLOGY II      Grades 10-12**

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Students will participate in the advanced manufacturing program building on the skill gained in Wood 1. Students will take on a much higher degree of leadership and tackle more advanced projects. Students will be encouraged to enter a final advanced project into the California State Fair. Successful completion of this course will provide real job skills for students looking to move into the woodworking trade.

## **SAN LORENZO UNIFIED SCHOOL DISTRICT**

### **ARROYO HIGH SCHOOL**

15701 Lorenzo Avenue  
San Lorenzo, CA 94580  
(510) 317-4000

## **BUSINESS ECONOMICS AND FINANCE (E2) GRADES 12**

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This course is the second class of a two year career pathway. It is an experiential learning course which provides students with knowledge of business and global business economics. Students learn about business planning, marketing and personal finance. The students explore financial aspects of credit, money management, and risk management in a global economy. Students apply macroeconomics theory in terms of supply and demand, pricing, and marketing through various class projects. This class is held in a computer lab, which provides access to the internet and simulates a true business environment. All students complete their own personal financial plan for short, medium and long term goals. Students can participate in cooperative work experiences that provide graduation credit, and mentoring. Students are encouraged to participate in the professional youth organization known as NFTE (Networking for Teaching Entrepreneurship). This is an ROP sponsored course.

## **BUSINESS OWNERSHIP (E1)      Grades 10-11**

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This course is the first class of a two year career pathway. This course focuses on student development, knowledge and skills vital for careers in business and entrepreneurship. During the first semester students will learn how to write a business plan to start their own small business. This is a very creative hands-on business class that supports student creativity and ownership of ideas. Academic areas of study include, but are not limited to: business law and ethics, financial strategies, and how to overcome the challenges of business ownership. During the second semester students

will take their businesses global and learn about the international business environment and its effects on small business and entrepreneurship. Students can participate in on the job cooperative training that provides high school graduation credit, mentoring and participate in the professional youth organization known as NFTE (Network for Teaching Entrepreneurship.) This is an ROP sponsored course.

## **MARKETING ECONOMICS I P      Grades 10-12**

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This class is designed to help students develop skills for careers in marketing and/or for further instruction leading to careers in business. Through classroom instruction students will learn the core competencies of marketing. Students will apply marketing concepts by creating a professional portfolio and participating in marketing class projects (i.e.

Food Marketing and social media campaign) as work samples. Students will learn about career development laws and will acquire knowledge to make better informed consumer choices. Through DECA (An Association of Marketing and Business Students), members will gain skills to enhance their self-confidence and leadership skills by participating in and traveling to career development competitions. Students will acquire leadership, computer and communication skills to assist them in being responsible young adults in their community, education and in the workforce. Students who are employed can earn up to 10 additional credits per semester. This is an ROP sponsored course.

## **PHOTOGRAPHY - BEGINNING      Grades 10-12**

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Students will become technically and aesthetically proficient with both traditional and digital photography processes. Students will learn to operate a manual SLR film camera, process black and white film and prints, use a scanner, a digital camera, manipulate images in Adobe Photoshop CS4, use a photography studio and create a digital portfolio. This course will also explore the aesthetic, technical, cultural and historical aspects of photography and its role as a form of visual communication. This is an ROP sponsored course.

## **PHOTOGRAPHY - ADVANCED      Grades 11-12**

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Students continue to build skills both in taking photos using digital cameras and film cameras and using Industry Standard software such as Photoshop CS4 for digital editing.

Students will make a digital a print portfolio of images. This is an ROP sponsored course.

## **SPORTS MEDICINE I P      Grades 11-1**

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Students explore human anatomy and physiology, and acquire a strong foundation for further study of these sciences. Students learn how systems of the body function and interact through physical activity, and develop a thorough understanding of the structure and function of the musculoskeletal system. This knowledge serves as a platform for understand the physiological response to injury and improving performance. Students will apply skills learned in the classroom as well as in the field practicum. This is an ROP sponsored course.

**SAN LORENZO HIGH SCHOOL**  
50 East Lewelling Boulevard  
San Lorenzo, CA 94580  
(510) 317-3000

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**CAREERS IN LAW AND PUBLIC SAFETY I P**  
**Grades 9-12**

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The Criminal Justice course is for students interested in exploring how criminal and civil laws are enforced by law enforcement agencies and the judicial system. The course covers all areas of criminal justice and its process, including forensic science, which is the application of science to criminal and civil legal processes. Students will learn about police, court, and corrections systems. Students will also learn about laws and how they are made, causes of crimes, how citizens react to the breaking of laws, the police and the challenges they face, court procedures, correction and probation, and rehabilitation and juvenile justice.

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**CAREERS IN LAW AND PUBLIC SAFETY II P**  
**Grades 9-12**

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Criminal Justice II is a capstone course in the Public Safety Pathway. Designed to build upon Criminal Justice I, the course integrates academic and technical preparation with a focus on providing students continued in-depth and advanced instruction pertaining to the criminal justice investigation, evidence collection, and more. Through project based learning, students enrolled will explore the history of law enforcement from the early beginnings of civilization, and travel through time into current law enforcement. Crimes against the person and property get broken down by elements of the crime through research of written and case law. Upon completion of the course, students will be prepared to transition to post-secondary career training, and/or be prepared for an entry level position in today's Public Safety industry. Prerequisite: "C" or better in Criminal Justice or teacher recommendation. UC/CSU (g)

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**MEDIA ARTS 12**                      **Grades 11-12**

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This course is the capstone class for the BADA students. Students will use the skills they have mastered in Basic and Advanced Video to create personal projects. Students will design and create a senior project that showcases their skills and serves the community. Students will learn through extensive hands on practice, demonstration, and discussion. Prerequisite: "C" or better in Basic and Advanced Video. Special permission can be given if the student has taken Video Production, but not Advanced Video, and received a grade of "B" or better. UC/CSU (f)

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**MULTIMEDIA**                              **Grade 9**

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Multimedia introduces students to the professional world of digital media. Students will learn the history of film and be introduced to digital editing and digital videography. Students will write, produce, and edit their own short movies and learn the basics of special effects and their proper use in storytelling. Prerequisite: None.

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**PHOTOGRAPHY - BEGINNING Grades 10-12**

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Students will begin exploring all major aspects of black and white and digital photography, including camera techniques, film developing, enlarging, printing, print finishing, and digital manipulation. This hands-on class emphasizes technical skills and development of an artistic vision. Lab donations accepted. Prerequisite: None. UC/CSU (f)

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**PHOTOGRAPHY - ADVANCED Grades 11-12**

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Students will continue to refine their photographic skills and artistic vision. Emphasis on more advanced digital skills such as studio lighting, alternative processes, and advanced digital skills and an exploration of careers in photography. A hands on, activity based class. Lab donations accepted. Prerequisite: "C" or better in Photography. UC/CSU (f)

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**VIDEO PRODUCTION**                      **Grade 10**

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Program focus is on five major areas of media production: script writing, television acting, studio production, and postproduction editing. Prerequisite: Must be in BADA. UC/CSU (f)

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**ADVANCED VIDEO PRODUCTION Grade 11**

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Students use and expand skills developed in Video Production to create productions based on the needs of the school. Students act as the SLz-TV crew. Students learn feature film script writing techniques and produce a short film. Students produce SLz-TV broadcasts for the school. Prerequisite: "C" or better in Video Production, or have special teacher permission. Must be in BADA. UC/CSU (f)

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**YEARBOOK PUBLICATION**                      **Grades 9-12**

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Students prepare, publish and market the school yearbook. Selecting the theme, design section formats, writing copy, selecting and cropping photos, writing captions, editing and proofing copy, creating marketing idea, and planning budget are included. Prerequisite: Teacher recommendation and permission of instructor is required. Beginning computer skills are strongly recommended.

EDEN AREA REGIONAL OCCUPATIONAL PROGRAM  
SCHOOL-WIDE LEARNER  
**OUTCOMES**

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**Students successfully completing courses through the Eden Area Regional Occupational Program will:**

**Demonstrate Appropriate Work Ethic**

by acting as a responsible citizen in the workplace and the community, modeling integrity, ethical relationships, and effective management.

**Demonstrate Career and College Preparation**

by applying appropriate technical skills and academic knowledge, developing an education and career plan aligned to personal goals, applying technology to enhance productivity, and practicing personal health and understanding financial literacy.

**Demonstrate Effective Communication**

by communicating clearly, effectively, and with reason, working productively in teams while integrating cultural/global competence.

**Demonstrate Critical Thinking Skills**

by utilizing critical thinking to make sense of problems and persevere in solving them.



# COMMUNITY COLLEGE ARTICULATION AGREEMENTS

The following courses have been articulated with one of the local community colleges. Students who complete these courses with grades of B or better earn transferable, college credit which is put on their community college transcript. Students may use these credits at the community college or take them directly to a 4 year university. While most colleges and universities will accept these credits, they may differ in how they will be applied towards graduation credit. All courses are free of charge to high school students in Castro Valley, San Leandro, Hayward and San Lorenzo Unified School Districts.

School	High School Course Name	A-G CSU/UC Pre-requisite	College Credit Available
<b>EDEN AREA REGIONAL OCCUPATIONAL PROGRAM</b>			
EAROP	Automotive Technology I P	g	yes
EAROP	Careers In Education I P	g	yes
EAROP	Careers In Education II P	g	yes
EAROP	Construction Technology I P	g	yes
EAROP	Culinary Science I P	g	yes
EAROP	Careers in Law, Forensics, and Public Safety I P	g	yes
EAROP	Cybersecurity I P	g	yes
EAROP	Cybersecurity II P	g	yes
EAROP	First Responder (Fire Science/EMT) I P	g	yes
EAROP	Medical Careers I P	g	yes
EAROP	Medical Careers II P	g	yes
EAROP	Welding Technology I P	g	yes
<b>CASTRO VALLEY UNIFIED SCHOOL DISTRICT</b>			
Castro Valley	Auto 1-2	-	yes
Castro Valley	Biotechnology	d	TBD
Castro Valley	Introduction to Programming	g	yes
Castro Valley	IT Essentials	g	yes
Castro Valley	Introduction to Networks	g	yes
Castro Valley	Routing and Switching	g	yes
Castro Valley/EAROP	Economics of Business	g	renewal application pending
Castro Valley	Business Ownership	g	renewal application pending
Castro Valley	Food & Nutrition	g	renewal application pending
Castro Valley	Graphic Design I	f	new application pending
Castro Valley/EAROP	Marketing Economics I P	g	renewal application pending
Castro Valley	Medical Careers 1/2	g	yes
Castro Valley	Photography	f	yes
Castro Valley	PLTW Intro to Engineering	d	yes
Castro Valley	PLTW Principles of Engineering	d	yes
<b>HAYWARD UNIFIED SCHOOL DISTRICT</b>			
Hayward	PLTW - Introduction to Engineering	d	new application pending
Hayward/EAROP	Entrepreneurship I P	g	renewal application pending
Hayward/EAROP	Entrepreneurship II P	g	new application pending
Hayward	Photography	f	yes
Hayward/EAROP	Sports Medicine I P	g	yes
Mt. Eden/EAROP	Entrepreneurship I P	g	renewal application pending
Mt. Eden/EAROP	Sports Medicine I P	g	renewal application pending
Mt. Eden	Photography	f	yes
Tennyson/EAROP	Entrepreneurship I P	g	renewal application pending
Tennyson/EAROP	Entrepreneurship II P	g	new application pending
Tennyson/EAROP	Medical Interventions	d	TBD



School	High School Course Name	A-G CSU/UC Pre-requisite	College Credit Available
<b>SAN LEANDRO UNIFIED SCHOOL DISTRICT</b>			
Lincoln	College & Career	g	yes
San Leandro	Automotive Technology I	g	yes
San Leandro	Business Applications	g	yes
San Leandro	College & Career	g	yes
San Leandro/EAROP	Entrepreneurship I P/Business Ownership	g	renewal application pending
San Leandro/EAROP	Entrepreneurship II P/Business, Economics & Finance	g	new application pending
San Leandro	Ethnic Studies	a	yes
San Leandro	PLTW - Introduction to Engineering Design & Invention	d	new application pending
San Leandro/EAROP	Marketing Economics I P	g	renewal application pending
San Leandro	Sports Medicine	d	yes
San Leandro	Theater I	f	yes
<b>SAN LORENZO UNIFIED SCHOOL DISTRICT</b>			
Arroyo/EAROP	Entrepreneurship I P/Business Ownership Tech	g	renewal application pending
Arroyo/EAROP	Entrepreneurship II P/Business, Economics, and Finance	g	new application pending
Arroyo/EAROP	Marketing Economics I P	g	renewal application pending
Arroyo	Photography I	f	yes
Arroyo	Sports Medicine I	g	renewal application pending
Arroyo	PLTW Intro To Engineering	d	yes
Arroyo	PLTW Principles of Engineering	d	yes
San Lorenzo	Advanced Video Production	f	TBD
San Lorenzo/EAROP	Careers in Law and Public Safety I P	g	yes
San Lorenzo	Beginning Photography	f	renewal application pending

yes - a current articulation is on file

TBD- course is being considered but an application had not been submitted when this catalog was printed

new application pending - awaiting approval from the college

renewal application pending - awaiting approval from the college



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# Thank You For Your Support

Castro Valley Unified School District

Hayward Unified School District

San Leandro Unified School District

San Lorenzo Unified School District

Chabot Community College

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*Preparing “Essential Employees” since 1971*

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