



# Mission Valley ROP

## Career Technical Training Center

### 2020–2021 High School Courses



## Courses at Logan High School

### **2-D Animation**

*UC "P" Credit | Ohlone College Credit*

Students learn the creative process for producing 2-dimensional digital animations. Students write short stories, draw sketches and storyboards; develop original characters, backgrounds and objects using traditional and digital animation techniques.

### **Automotive Technology 1 – (1 Hour)**

*Chabot College Credit*

General auto repair, brakes, steering and suspension, electrical systems, engine performance. Students receive hands on experience in auto shop operations, tool usage, safety procedures, equipment operation and customer service.

### **Automotive Technology 2 – (2 Hours)**

*Prerequisite is a C or better in Auto Tech 1.*

Students gain advanced skills in a variety of areas and can then choose to concentrate in areas of specialization.

### **Basic Car Care (Semester)**

This one-semester course provides pre-entry level training in automotive service/maintenance and is designed to be the first course for students entering transportation technology career pathways.

### **Computer Science Principles**

*UC "g" Credit*

Using Python® as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation.

### **Culinary Arts 1**

*Mission College Credit*

This competency-based course introduces students to the Hospitality and Food Service Industry. Students learn food safety and sanitation, introduction to hydroponic growing methods for food, basic culinary terms, hospitality standards, knife skills, fundamentals of cooking techniques, pantry, soups, and basic pastry. Integrated throughout the course are career preparation standards, including: basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology and employment literacy.

### **Culinary Arts 2**

*Prerequisite Culinary Arts 1.*

Students continue to focus on sanitation, safety, and knife skills. Students gain advanced skills in maintaining hydroponic growing of foods to be cooked in this year; preparing stocks, soups, sauces and main entrees courses, nutrition, costing out recipes and menu and other culinary math skills, menu design and regional cooking.

### **Digital Photography 1**

*UC "P" Credit | Mission College Credit*

Study of digital photography encourages conceptual thinking and creativity. Explore hands on digital photography fundamentals to include: Adobe Photoshop, lighting, set design, studio configuration, camera operation, software interfaces, color management, photo editing, and compositing.

### **Digital Photography 2**

*UC "P" Credit*

Prerequisite Digital Photography 1. Students will improve their camera operation skills, work on photo concept, improve and manipulate their photos using Adobe Photoshop CS3, and learn advanced digital printing techniques. Students will practice professionalism and work ethic, and the same challenges faced in "real life" photography careers.

### **Introduction to Culinary Arts and Hospitality (Semester)**

Exploration of careers in several related industries including hospitality, culinary arts, travel, tourism, recreation and leisure industries. Students are also introduced to some basic cooking skills, safety, and sanitation. Introductory semester course for Culinary Arts.

### **Introduction to Engineering Design**

*UC "g" Credit*

This Project Lead the Way (PLTW) course will expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students will make models and use 3D solid modeling design software to help them design solutions to solve proposed problems and will learn how to document their work and communicate solutions to peers and members of the professional community.

### **Law Enforcement/Homeland Security**

*Ohlone College Credit*

Students learn legal vocabulary, search and seizure, laws of arrest, judicial systems, specialized police practices and improved written and oral communication. Explore careers within the criminal justice system and job search procedures; field trip to a local law enforcement agencies.

### **Medical and Health Careers**

*UC "g" Credit | Chabot College Credit*

Exploration for career pathways in health, medicine, life sciences, and biotechnology; health care systems, health careers, medical terminology, medical ethics and law, human growth, development, nutrition, and infection control. This is an introductory class taken during the junior year and students can take Medical Occupations in their Senior year.

### **Medical Occupations**

*UC "g" Credit | Las Positas College Credit*

This course prepares students for entry-level employment in a variety of medical or health careers. Instruction includes professional ethics, medical terminology, infection control, vital signs, basic anatomy and physiology, CPR and special clinical procedures. Students are placed in an Internship at doctor's offices, pharmacies, physical therapy, and dental clinics based on their career choice. Immunizations, scrubs and personal transport to the sites are required.

### **TV Broadcast Technology – Electronic Media Production 1, 2**

*UC "P" Credit*

Television Broadcasting Technology is a one year course taken over two years. Successful completion of the course earns 3 units of college credit. Semester 1 –Electronic Media Production 1 (74235) is taken in the 11th Grade. Semester 1 (EMP 1) students become proficient in the use of television broadcast equipment. Semester 1 focuses on an introduction to television broadcasting, project planning, audio and video production, lighting, location production and studio set-up and operation.

Semester 2 –Electronic Media Production 2 (74236) is taken in the 12th grade. Semester 2 (EMP 2) students gain greater proficiency in television production. Semester 2 focuses on television broadcasting, including creating news stories. During this semester students produce the daily television show Logan Live! for the James Logan High School campus.