



# Mission Valley ROP

## Career Technical Training Center

### 2020–2021 High School Courses



## Courses at Irvington High School

### **Anatomy and Physiology (74007)**

*UC "d" Credit | Ohlone College Credit*

Students will gain a strong foundation in anatomy and physiology needed in the healthcare profession through lectures, guest speakers, field trips and labs. Lab skills include study of body systems and basic medical terminology.

### **Culinary Arts 1 (74170)**

*Mission College Credit*

This competency-based course is geared to introduce students to the Hospitality and Food Service Industry. Included in the course are sections on food safety and sanitation, basic culinary terms, hospitality standards, knife skills, fundamentals of cooking techniques, pantry, soups, and basic pastry. Integrated throughout the course are career preparation standards, which include basic academic skills, communication, interpersonal skills, problem-solving, workplace safety, technology and employment literacy.

### **Computer Support Specialist 1, 2 (74130/74140)**

*UC "g" Credit | Mission College Credit for Year 1, Ohlone College Credit for Year 2*

This course uses Cisco Systems Inc., curriculum introducing students to the fundamentals of computer hardware and software, advanced concepts such as security, networking, and responsibilities common for an ICT professional. Emphasis is placed on developing essential troubleshooting and repair skills in preparation for the A+ certification exam. Second year students are given an introduction into the Linux operating system and network servers, and network security.

### **Cyber Security (74185)**

*UC "g" Credit*

ICT Essentials 1 prepares students for a career in network administration and technical support with a focus on cybersecurity. The course includes a series of technical subjects that provide hands-on knowledge and skills in computer hardware, operating systems, networking, and security concepts. Industry-based curricula are utilized in a networked environment to assist in preparing students for industry recognized certifications. Students go through intricate problem-solving exercises that mimic the technical challenges of the real world. The program targets students preparing for careers in Cybersecurity and Information and Communication Technologies.

### **Digital Imaging 1 (74240)**

*UC "p" Credit | Ohlone College Credit*

Students use digital tools and technologies as art and design mediums to visually articulate thoughts, ideas, and experiences. Technologies include digital painting, drawing, compositing and graphic design.

### **Digital Photography 1, 2, 3 (74200/ 74201/74202)**

*UC "p" Credit for Years 1 & 2 | Mission College Credit for Year 1*

Study of digital photography encourages conceptual thinking and creativity. Explore hands-on digital photography fundamentals to include: Adobe Lightroom Classic, composition, design principles, the elements of art, lighting, history of photography, and analog and digital printing.

### **Entrepreneurship (74281)**

Students will gain the knowledge and skills necessary to begin and operate a business and become an entrepreneur. The class focuses on understanding the process of analyzing a business opportunity, preparing a business plan, determining the viability of an idea using research, and developing a plan to organize and promote the business, its products, and/or services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

### **Entrepreneurial Marketing (74282)**

Students will understand the fundamentals of marketing and its importance to small businesses. This class focuses on essential ideas including identifying markets, the 4 P's (product, price, place & promotion), ethical practices, and the development of a marketing plan. The class will include career exploration and concepts of retail sales, business presentations, business management, and political influences. Students will need to follow oral and written directions, work well in groups and demonstrate good work habits to be successful in the course.

### **Internet Engineering 1, 2 (74370/ 74380)**

*UC "g" Credit | Chabot, Las Positas, Mission, or Ohlone College Credit for Years 1 & 2*

This course uses Cisco Systems Inc. curriculum introducing students to the architecture, structure, functions, components, and models of the Internet and computer networks. The course prepares students for the CISCO Certified Entry Level Network Technician (CCENT) industry certification. Second year students' progress from basic networking to more complex enterprise and theoretical networking models.

### **Introduction to Engineering and Design (74209)**

*UC "f" 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.

### **Principles of Engineering (74213)**

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

This survey course of engineering exposes students to major concepts they'll encounter in a postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community.

### **Sports Therapy 1, 2 (1 Hour) (74460/74461)**

*UC "g" Credit | Chabot College Credit*

This course is for students interested in the areas of athletic training, physical therapy, occupational therapy and strength and conditioning. Areas covered include: anatomy/physiology, emergency procedures, injury recognition, evaluation and treatment, taping and wrapping. Students will earn CPR certification and an internship is optional.

For more information about MVRop and our programs go to [www.mvrop.org](http://www.mvrop.org)