



# 2023-2024 COURSES AT IRVINGTON HIGH

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

**UC "d" Credit | Ohlone College Credit**

Students will learn the study of body systems and basic medical terminology. Lab skills will include dissections and career-specific skills (blood pressure, vision screening, etc.)

## **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. Students earn Food Handlers Certification.

## **Cyber Security (74185)**

**UC "g" Credit**

**Prerequisite: Internet Engineering 1 & 2 recommended** This course introduces core security concepts and skills needed to monitor, detect, analyze and respond to cybercrime, cyberespionage, insider threats, advanced persistent threats, regulatory requirements, and other cybersecurity issues facing organizations. It emphasizes the practical application of the skills needed to maintain and ensure the security operational readiness of secure networked systems.

## **Digital Imaging (74240)**

**UC "f" Credit | Ohlone College Credit may be available**

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.

## **Entrepreneurship (74281)**

**UC "g" Credit | Mission College Credit**

Students will learn what it takes to be an entrepreneur, including how to recognize and evaluate a business opportunity. They will expand their critical thinking, problem-solving, communication, and business skills through practice. Team and individual projects incorporate accounting, finance, marketing, operations, management, and understanding legal and economic environments. Students will develop and present a comprehensive business plan, including the capital required, the return on investment desired, and the potential for profit. The curriculum is designed to help students explore entrepreneurship as a career pathway and provide them with a realistic framework for starting a new business.

## **Entrepreneurial Marketing (74282)**

**UC "g" Credit**

Students will understand the fundamentals of marketing and its importance to small businesses. This capstone 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 (74370)**

**UC "g" Credit | Ohlone College Credit**

This course introduces the architectures, models, protocols, and networking devices, applications, and data used in today's modern computer networks - including IP addressing and Ethernet fundamentals. Students will build and configure simple local area networks (LANs), including foundational network security.

## **Internet Engineering 2 (74380)**

**UC "g" Credit | Ohlone College Credit**

**Prerequisite: Internet Engineering 1** This course focuses on switching technologies and router operations that support small-to-medium business networks, wireless local area networks (WLANs), and security concepts. Students learn key switching and routing concepts, network configuration and troubleshooting, identify and mitigate LAN/WLAN security threats.

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

**UC "d" or "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-PLTW (74213)**

**UC "d" 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.