

Grades Offered: 11, 12

Credits: 5

Duration: 1 Semester

Prerequisites: None

ARCHITECTURAL TECHNOLOGY

Course Codes: 09521 (Fall) / 09523 (Spring)

Design your dream home! Using the Computer Aided Drafting and Building Information Management software you will learn how to draw floor plans, elevations, and create construction documents to produce a three dimensional version of your house. You will create a professional portfolio and learn career skills that will prepare you for internships and college.

AUDIO ENGINEERING 1 & II

Course Codes: 09521 (Fall) / 09523 (Spring)

Prepare yourself for a career in sound recording, music production, and other related careers in the entertainment industry. Audio Engineering provides students the opportunity to explore and develop technical, creative, and aesthetic skills used in the recording industry. Also, students receive hands-on training using modern professional recording studio equipment.

AUTOMOTIVE TECHNOLOGY

Course Codes: 09521 (Fall) / 09523 (Spring)

Automotive Technology is a performance-based course where students work at their own pace to achieve competence of the performance objective. Upon completion, students may obtain and succeed in an entry-level job related to automotive technology. Safety, work ethics, teamwork, and related academic skills are taught in a classroom that functions as a live automotive shop where students will work on real customers' vehicles and learn the techniques and procedures necessary to repair today's vehicles.

CONSTRUCTION TECHNOLOGY

Course Code: 09523 (Spring)

In this course, students have the opportunity to explore and specialize in specific areas of industry including: electrical, plumbing, roofing, concrete forming, framing, interior systems, etc. through job site tours, hands-on experience, and classroom activities. Students will learn job-site safety; text and drawing interpretation to construct projects; hand and power tool operation and maintenance; and students will learn the components and functions of building systems.

CRIME AND FORENSICS

Course Codes: 09521 (Fall) / 09523 (Spring)

The fall course includes an analysis of the roles and problems of the criminal justice system in a democratic society; and introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. The spring course incorporates lab and lecture through focusing on basic procedures in crime scene management such as preparing initial reports and sketches;

processing evidence, and following related criminalistic procedures such as fingerprinting, blood spatter, forensic anthropology, and manner/cause of death.

CULINARY ARTS

Course Codes: 09521 (Fall) / 09523 (Spring)

Looking for a tasty and rewarding career? It could be awaiting you in the restaurant or food business. By working in CEC's Eliot Street Café, you'll learn skills such as baking, quantity food preparation, customer service, banquet and catering operations, and restaurant management. Advanced students are eligible for apprenticeships with chefs in the metro area's best restaurants.

DIGITAL FILM PRODUCTION

Codes: 09521 (Fall) / 09523 (Spring)

This course allows students to explore their creativity through the medium of motion pictures. Students conceive, write, plan, shoot, edit and master their own short films including narratives, documentaries, commercials, or music videos. Students study basic film history and theory, cinematographic and editing techniques. Students use professional equipment in all phases of production and are able to showcase their work at our year-end film festival as well as other local student film festivals.

EXERCISE AND HEALTH SCIENCES

Course Codes: 09521 (Fall) / 09523 (Spring)

The class is equally divided into exercise science and physical exercise. Students will exercise the first hour of class in a variety of modalities four days per week while learning to design personal exercise programs and group exercise classes. The course concentrates on the foundational sciences that a trainer/wellness coach needs in order to help a client improve their health, sports performance, or to change their body. Also, the course includes nutrition, disease prevention, and mind-body health.

FASHION DESIGN

Course Codes: 09521 (Fall) / 09523 (Spring)

The Fashion industry is big business and it affects all of our lives to some extent, simply because we are all consumers of clothing, and possibly cosmetics, hair care, etc. Yes, even those who are "anti-fashion" are still a part of this world-wide industry. This class is designed to give students a hands-on experience in many facets of this industry including: designing, pattern drafting, sewing, textiles, sketching, wardrobe planning, buying and more.

FIRE SCIENCE

Course Codes: 09521 (Fall) / 09523 (Spring)

This course is designed to help students meet the fundamentals of firefighting. The course covers fire ground skills including, fire behavior, fire extinguishers, personal protective equipment, search and rescue, and interior fire attack. Also, this class familiarizes the student with the introductory aspects of emergency medical care.

GRAPHIC DESIGN

Course Codes: 09521 (Fall) / 09523 (Spring)

Everywhere you look you see something created by a Graphic Artist/Designer. Graphic Designers are responsible for everything you see that is printed from newspapers, to books, to posters and magazines. Also, they are responsible for the graphics, illustrations, games, and animation you see on the Internet, videos, and movies. In this course you will create graphics, illustrations, layouts, animations, and web pages that are limited only by your imagination.

MANUFACTURING (Intro Digital Fabrication)

Course Code: 09520 (Fall A.M. class)

Everything you see and use has been manufactured somewhere. What does it take to design, produce, test, and redesign a product according to client needs and wants? Intro to Digital Fabrication will take students through the design process while working on skills in drafting, technical math, lab safety, and tool use. Class will be conducted in a brand new, state of the art fabrication lab at CEC.

MEDICAL CAREERS

Course Codes: 09520 & 09521 (Fall A.M. & P.M.) / 09522 & 09523 (Spring A.M. & P.M.)

Intro to Medical Careers offers an overview of CPR/First Aid/AED certification, Ophthalmology, Pharmacology, Nursing, Biomedical Engineering, Clinical Lab Practices, Medical Imaging, Sports Medicine, Veterinary Medicine, HOSA membership, Medical Career Exploration, Volunteerism/Community Service Projects

TEACHING CAREERS

Course Codes: 09521 (Fall) / 09523 (Spring)

Students will investigate the eight core knowledge areas required to meet professional credentialing standards that include growth and development, nutrition, health, safety, play, guidance, developmentally appropriate practices, community relationship, administration, and professionalism.

WELDING TECHNOLOGY

Course Codes: 09521 (Fall) / 09523 (Spring)

This four-semester program includes safety, oxy-fuel welding, cutting and brazing, arc welding, mig welding, flame and plasma cutting, blue print reading, fabrication, metallurgy, work ethics as well as practical math and science applications through actual practice.