

**COMPUTER APPLICATIONS IN SCIENCE 1–2 (0552, 0553)
CAREER TECHNICAL EDUCATION: SITE-ADOPTED COURSE**

Grades 9–10. Computer Applications in Science is a yearlong course that utilizes the methods of science (inquiry, data collection, analysis, organization of information, etc.) as the context to teach skills in computer software and the use of Internet resources. Specifically, this course extends the concepts of ninth-grade science through the application of computer technologies, including Web-based materials, communication and productivity tools, multimedia, and content-specific software.

Credit for this course counts towards the practical arts credits required for high school graduation. Successful completion of this course also satisfies the district’s computer literacy requirement for graduation.

Approved site: Crawford IDEA.



**FIRE PROTECTION TECHNOLOGY 1,2 (0671, 0672)
CAREER TECHNICAL EDUCATION: PILOT COURSE**

Grades 10–12. Note: This course is a two-year pilot, ending spring 2009.

This two-semester foundation course introduces students to the philosophy and history of fire protection, as well as to career opportunities in fire protection and related fields. First-semester topics include education and training programs, career potential assessments, work ethics and human relations, available training programs, personnel development programs, and history of the fire protection service. The second semester introduces topics that include fire loss analysis, the organization and function of public and private fire protection services and systems, the fire department as part of local government, and laws and regulations affecting the fire service.

Credit for this course counts toward the practical arts credits required for high school graduation.

Pilot site: Lincoln High School Center for Public Safety.



**FOOD PREPARATION AND NUTRITION (1165Q)
CAREER TECHNICAL EDUCATION: SITE-ADOPTED COURSE**

Grade 9. This stand-alone nine-week course is designed to introduce ninth-grade students to the food science, dietetics, and nutrition career pathway they have the opportunity to pursue in grades 10–12. Students in this course learn the importance of good nutrition and how it contributes to their personal well being. They get an overview of the following topics: the principles of sound consumer economics, food selection and preparation procedures, nutrition, and safety and sanitation procedures.

Credit: This course earns 0.5 (one-half) units of elective credit towards high school graduation.

Approved site: Morse High School.



FOUNDATIONS IN VISUAL ART & DESIGN 1,2 (3645, 3646) CAREER TECHNICAL EDUCATION: PILOT COURSE

Grades 9–10. Prerequisite: Art 1,2.

This course engages students in an exploration of art and design in contemporary life, and is part of a statewide pilot program being undertaken by ConnectEd: the California Center for College and Career that supports the development of academically rigorous curriculum within career technical-education courses. This course is designed to be a foundation course for a media and design arts career path in the Arts, Media, and Entertainment industry sector. Its curriculum addresses state standards in both career technical education and visual and performing arts.

Students in this course will investigate the numerous ways in which art and design evince themselves in the student's personal life, as well as in his/her local community, the region, and the world. They begin to develop skills in viewing art, and learn how to create original works of art themselves. Students are introduced to a wide range of industry-related careers, and are given the opportunity to get hands-on experience in several of them. By the end of the course, students will have mastered the foundational skills necessary to pursue either concentration and capstone (ROP) courses in a career path, or intermediate- and advanced-level visual arts (VAPA) courses.

Credit for this course counts toward the fine arts (VAPA) credits required for high school graduation.

Pilot site: Kearny DMD.



GATEWAY TO TECHNOLOGY (3596) CAREER TECHNICAL EDUCATION: PILOT COURSE

Grades 6–8. Note: This is a Project Lead the Way (PLTW) course that utilizes prescribed lesson plans and project ideas. Teachers must complete a mandatory two-week PLTW training program in order to offer it. It replaces Exploring Technology 6th–8th at the pilot sites.

Gateway to Technology is a Project Lead the Way course intended to introduce middle school students to the field of engineering and prepare them for possible entry into a high school-level PLTW engineering program. The standards-based curriculum consists of five independent units of study designed to reinforce and provide relevant context for grade-level academic learning in mathematics, science, and technology. It employs a hands-on approach to show students how engineers use technology to solve everyday problems. It also promotes communication and collaboration by emphasizing a team approach to problem solving.

Pilot sites: Pershing, Mann, Marshall, Challenger, Lewis, DePortola, Montgomery, Innovation, and Millennium Tech Middle Schools.



**INTRODUCTION TO ARTS, MEDIA, AND ENTERTAINMENT (AME)
PRODUCTION 1,2 (0681, 0682)
CAREER TECHNICAL EDUCATION: PILOT COURSE**

Grades 9–10. This two-semester foundational course in the Arts, Media, and Entertainment industry sector introduces students to careers in theatrical staging while demonstrating practical applications of science, technology, engineering, and math (STEM) concepts. It provides instruction in conceptualization, design, engineering, fabrication, production, and project management for theatres, sports arenas, concert halls, trade expositions, festivals, and other events that require staging. An emphasis on inter-industry transferable skills allows it to serve as an introduction to a number of different career-path concentration and capstone (ROP) courses.

Credit for this course counts towards the practical arts credits required for high school graduation.

Pilot site: Lincoln High School Center for the Arts.



**INTRODUCTION TO AUTO BODY 1,2 (3578, 3579)
CAREER TECHNICAL EDUCATION: SITE-ADOPTED COURSE**

Grades 9–11. Note: This is the foundation course for a career path in the field of auto body and collision repair. It is a prerequisite for taking the ROP Auto Body Repair & Refinishing course.

This two-semester introductory course provides students with a basic understanding of the auto-body industry and the repair of vehicles, and is intended as the first step in a sequential series of courses leading to industry certification. Students in this course will participate in activities involving precision measurement, physics and chemistry as they relate to auto body repair. Students will develop their technical skills by removing, repairing and replacing automotive components on vehicles. They will strengthen their writing skills by note taking and reading technical text, completing work orders and project reports. Operation and management of the shop also is emphasized.

Credit for this course counts toward the practical arts credits required for high school graduation.

Approved site: Morse High School.



INTRODUCTION TO FABRICATION AND DESIGN 1,2 (3591, 3592) CAREER TECHNICAL EDUCATION: PILOT COURSE

Grades 9–12 (P). Note: This course is in its second pilot year (2008-09).

This two-semester course combines elements of design with the proper use of power and hand tools to create original works of art. It is designed to serve as a foundational course for media and design arts, machine forming and technology, and wood products career paths in the arts, media, and entertainment industry sector. The focus of the course is on developing public art, using materials such as metal, wood, and ceramic. Students in this course will install projects for the school and the community using tools, techniques, and processes from the fabrication and sculpture fields.

Credit for this course counts towards the practical arts credits required for high school graduation. The course also meets the visual arts ('f') subject-area requirement for admission to UC/CSU.

Pilot site: University City High School.



INTRODUCTION TO LEGAL AND LAW ENFORCEMENT CAREERS 1,2 (0503, 0504) CAREER TECHNICAL EDUCATION: SITE-ADOPTED COURSE

Grades 9–10. Note: This is a required course for all grade 10 students enrolled in the legal/law enforcement career path of the Public Services industry sector at the approved sites.

This two-semester course will provide students with an overview of the U.S. criminal justice system and career opportunities in the field of law. Topics include the history of law enforcement, the philosophic background of legal functions and the criminal courts, constitutional problems as they relate to the law, and the use of technology in criminal justice. Students also will understand the job requirements of law enforcement agents, prosecuting attorneys, and public defenders and have the opportunity to participate in field trips and job shadows in the judicial system.

Credit for this course counts toward the practical arts credits required for high school graduation.

Approved sites: All schools in the Crawford and San Diego High Educational Complexes, and Lincoln High School.



ORGANIZATIONAL LEADERSHIP 1,2 (0505, 0506)
CAREER TECHNICAL EDUCATION: SITE-ADOPTED COURSE

Grades 9–12. Note: At San Diego Business, this course is part of the Academy of Finance program.

Organizational Leadership is a two-semester course that instructs students in effective motivation, goal setting, time management, problem solving, group dynamics, team building, communication, stress management, and leadership styles. Students work in groups to solve problems and plan projects. They are taught to respect each other's individuality regardless of capability, race, gender, or religion. Students must complete 25 hours of community service as part of the course curriculum.

Credit for this course counts toward the practical arts credits required for high school graduation.

Approved sites: San Diego Business (originating site) and San Diego LEADS.



PRINCIPLES OF MUSIC PRODUCTION 1–2 (0641, 0642)
CAREER TECHNICAL EDUCATION: PILOT COURSE

Grades 9–12. Note: The approved pilot site for this course was changed from Madison High School to San Diego Arts and its pilot term extended an additional year (to spring 2009) since Madison was unable to offer it.

Principles of Music Production is a yearlong intermediate-level course in the Arts, Media, and Entertainment industry sector. Students in this course will create a music album for worldwide release and review by music-industry professionals. After learning the core fundamentals of music theory and business practices, students are placed into production and/or business teams to work on a series of projects that culminates in a media-release event that has their music being heard by a global audience. The course is open to all students, regardless of music experience who show an interest in the career fields encompassing the Arts, Media, and Entertainment sector.

Credit for this course counts toward the practical arts credits required for high school graduation.

Pilot site: San Diego Arts.



PUBLIC RELATIONS 1,2 (0691, 0692)
CAREER TECHNICAL EDUCATION: PILOT COURSE

Grades 9–12. Note: This course is in its second pilot year (2008-09).

This course is intended to give students introductory level exposure to the world of public relations as it pertains to the Public Services industry sector; specifically, legal and government services. Topics include the public relations process, communications theory, social and ethical responsibilities in public relations, client relations, and more. Students become familiar with the nature and scope of public relations through several hands-on projects. The course is designed to serve as a foundation course for the legal and government services career path.

Credit for this course counts toward the practical arts credits required for high school graduation.

Pilot site: San Diego LEADS.

