
REGIONAL OCCUPATIONAL PROGRAM COURSES

The Regional Occupational Program (ROP) is a state-funded career technical education (CTE) program designed to prepare individuals 16 years of age or older for entry-level employment, career advancement, and/or entry into advanced education programs. San Diego Unified School District currently offers more than 50 ROP courses. Students who complete the ROP courses of study and achieve the course competencies, developed by local industry, will be awarded a skill certificate listing the specific occupational competencies they have obtained. Internship experience is an integral part of the ROP curriculum.

ROP courses serve as capstone courses in the district's programs of study. More than 30 district ROP courses are articulated with the San Diego Community College District. Students completing

these courses with a grade of A or B are eligible to earn from 3 to 19 units of community college credit.

ROP courses are offered in single-period or double-period formats. The courses listed in this section are available to qualified students attending any school throughout the district. In addition, several ROP courses are being piloted at specific sites. Information on these courses may be found in *District Pilot and Site-Adopted Courses: A Supplement to the Course of Study, K-12* (PeopleSoft item number 3470; studata.sandi.net/cos/supp/).

For more information about the Regional Occupational Program, please call the Office of College, Career and Technical Education at (858) 503-1740, or visit:

www.sdcccte.org

ARTS MANAGEMENT 1,2; 3,4 (8691, 8692; 8693, 8694)

ARTS MANAGEMENT (1-2), (3-4) (8695; 8696)

ARTS MANAGEMENT COMMUNITY CLASSROOM 5,6 (8681; 8682)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:

Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is intended to act as a capstone class in the arts, media and entertainment career path. It provides entry-level and advanced training in the field of arts management. Instruction covers business evaluation, market research, employment practices, administrative policies, as well as location, production and pricing theory. Students use non-profit accounting methods to run a box office, and learn how to curate and market artistic works. Employment possibilities may be entrepreneurial in nature or may exist within existing organizations, in

roles such as studio artist, gallery owner, and theater manager.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

AUTO BODY REPAIR/ REFINISHING 1,2; 3,4 (8540, 8541; 8542, 8543)

AUTO BODY REPAIR/ REFINISHING (1-2), (3-4) (8808, 8809)

AUTO BODY REPAIR/ REFINISHING 5,6 (8544, 8545)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training for students seeking employment in the auto body industry. Employment possibilities include auto body technician, auto body helper, sander and masker, frame straightener, insurance adjuster, and body shop manager. Instruction covers shop safety; proper use of welding equipment; proper use of hand, electric, and pneumatic tools; hydraulic power equipment; frame equipment tools; and job-search/job-keeping skills. Painting techniques also are taught, along with the proper use of painting tools. Successful completion of the transportation program of study gives students the opportunity to earn National Automotive Technicians Education Foundation (NATEF) certification.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

AUTO ENGINE PERFORMANCE 1,2; 3,4
(8878, 8879; 8859, 8874)

AUTO ENGINE PERFORMANCE (1-2), (3-4) (8802, 8803)

**AUTO ENGINE PERFORMANCE
COMMUNITY CLASSROOM 5,6** (8875,
8876)

Grade level: 11-12

Prerequisites: A one-semester basic auto mechanics course and/or appropriate experience, as determined by the instructor.

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level and advanced training in automobile and light truck repair. Employment possibilities include automotive technician specializing in ignition, electronic, fuel and emission systems; installer and adjuster of smog devices; and self-employed or dealership technician. The course curriculum is based on requirements for Automotive Service Excellence (ASE) certification. Instruction covers safety; general engine operation and repair; computerized engine controls diagnosis and repair; fuel, air induction, and exhaust systems diagnosis and repair; emissions control systems diagnosis and repair; and Bureau of Automotive Repair (BAR) rules and regulations. Students use equipment that includes hand tools; digital volt/ohm meters; and ignition, emissions, and diagnostic equipment. Approximately 360 hours are needed to complete this course, although completion depends on a student's entry-level skills and rate of progress in class.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**AUTO QUICK SERVICE TECHNOLOGY
1,2; 3,4** (8550, 8551; 8552, 8553)

**AUTO QUICK SERVICE TECHNOLOGY
(1-2), (3-4)** (8810, 8811)

AUTO QUICK SERVICE TECHNOLOGY COMMUNITY CLASSROOM 5,6 (8554, 8555)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in automotive service/maintenance. Employment possibilities include service station operator, quick lube service, and tire and parts worker. Instruction covers the following areas: engine systems, electrical systems, tires and brakes, lubrication service, cooling systems, ignition, and emission-device service. Students use equipment that includes tire machines, lube and diagnostic equipment, and tools common to automotive work. Approximately 360 hours are needed to complete this course, although completion depends on a student's entry-level skills and rate of progress in class.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students completing this course, Transportation Technology 1,2 (3671, 3672) and Transportation Technology 3,4 (3673, 3674) with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

AUTO SUSPENSION, STEERING, AND BRAKES 1,2; 3,4 (8521, 8522; 8523, 8524)

AUTO SUSPENSION, STEERING, AND BRAKES (1–2), (3–4) (8805, 8520)

AUTO SUSPENSION, STEERING, AND BRAKES COMMUNITY CLASSROOM 5,6 (8525, 8526)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides students with entry-level skills in the specialty areas of automotive tire service, brake systems, and auto front-end service and alignment.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

BIOTECHNOLOGY 1,2 (8704, 8705)

BIOTECHNOLOGY 3,4 (8730, 8731)

BIOTECHNOLOGY COMMUNITY CLASSROOM 5,6 (8458, 8459)

Grade level: 11–12

Prerequisites: Biology 1,2 *and* Chemistry 1,2; excellent computational skills *and* computer literacy

Course duration: Two-semester courses

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8704, 8705. These two-semester ROP courses provide entry-level (8704, 8705) and preparation for advanced (8730, 8731) training in biotechnology services. They consist of laboratory-based classes that integrate the core competencies of the health sciences career path of the life and physical sciences with the technical skills needed for postsecondary education and/or employment in the biotechnology industry.

These courses are designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

BROADCAST JOURNALISM 1,2 (8432, 8433)

BROADCAST JOURNALISM 3,4 (8434, 8435)

**BROADCAST JOURNALISM
COMMUNITY CLASSROOM 5,6 (8436, 8437)**

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8432, 8433. This course provides instruction in digital video editing, script writing, reporting, sound editing, and presentation design. Students develop communication and technical production skills by preparing and presenting newscasts and enterprise reports in a broadcast environment.

This course is offered in the following formats: one hour, one semester; one hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**BUSINESS AND COMPUTER
APPLICATIONS 1,2; 3,4 (8651, 8652; 8653, 8654)**

**BUSINESS AND COMPUTER
APPLICATIONS (1–2), (3–4) (8508, 8509)**

**BUSINESS AND COMPUTER
APPLICATIONS COMMUNITY
CLASSROOM 5,6 (8655, 8656)**

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

Note: This course meets the district's computer literacy requirement for high school graduation

COURSE DESCRIPTION

This course provides entry-level, upgrade, and advanced training in business and computer applications preparing students for both college and a career. Instruction includes units in the following areas: software applications (word processing, spreadsheet, database, presentation, and graphics), business practices, business math, reference materials, filing and records management, and electronic communications. Optional topics may include desktop publishing, web design, and international business procedures. Employment possibilities include database administrator, graphic designer, information systems analyst, administrative assistant and records technician.

The course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 19 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

BUSINESS AND FINANCIAL MARKETS 1,2; 3,4 (8609, 8610; 8611, 8612)

BUSINESS AND FINANCIAL MARKETS (1-2), (3-4) (8613, 8614)

BUSINESS AND FINANCIAL MARKETS COMMUNITY CLASSROOM 5,6 (8615, 8616)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8613, 8614. This course is designed to provide students with entry-level training and preparation for post-secondary education and careers in business and finance. It is intended as a capstone in the sequence of courses that make up the Academy of Finance, at sites where the academy is offered. The course has a real-world emphasis, allowing students to gain an understanding of the requirements of the various jobs that are available in the business and finance industries as they explore different career options in the two fields.

This course is offered in the following formats: one hour, one semester; one hour, two semester; two hour, one semester; and two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course sequence.

This course is designed to reinforce core academic

content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students who participate in an academy of finance program and compete this and the required series of courses with a grade of A or B are eligible to earn up to 26.5 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

BUSINESS ENVIRONMENTS 1,2; 3,4 (8915, 8916; 8917, 8918)

BUSINESS ENVIRONMENTS (1-2), (3-4) (8919; 8920)

BUSINESS ENVIRONMENTS COMMUNITY CLASSROOM 5,6 (8921, 8922)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in the technical and soft skills needed in any of several business services. Students are introduced to career possibilities in professional environments culminating in internship placements such as a customer service representative, administrative assistant, accounting clerk, or cashier. Instruction covers employer/employee rights, business practices, management functions, and job-acquisition skills. Approximately 360 hours are needed to complete this course, with a minimum of 20 hours required for minimal certification. The course is designed to serve as a capstone in the marketing and professional sales career path.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 5.5 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

BUSINESS MANAGEMENT AND OWNERSHIP 1,2; 3,4 (8663, 8664; 8666, 8667)

BUSINESS MANAGEMENT AND OWNERSHIP (1-2), (3-4) (8650, 8683)

BUSINESS MANAGEMENT AND OWNERSHIP COMMUNITY CLASSROOM 5,6 (8598, 8599)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level, upgrade, and advanced training in small-business management. Employment possibilities are entrepreneurial in nature. Students receive instruction in researching and evaluating markets, locations and products, as well as the application of pricing theory. Students use business plans, accounting practices, and research and development techniques as tools to operate a school-based business or to complete an internship with a local business. Approximately 180 hours are needed to complete the course.

The course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic

content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

CABINETMAKING 1,2; 3,4 (8827, 8828; 8829, 8830)

CABINETMAKING (1-2), (3-4) (8568, 8569)

CABINETMAKING COMMUNITY CLASSROOM 5,6 (8566, 8567)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in basic millwork, cabinet, and furniture making. Employment possibilities include cabinetmaker, furniture maker, furniture finisher, assembler, and pattern maker. Instruction covers the history and properties of wood, hand-tool identification and usage, power-machine identification and usage, wood finishes, blueprint reading, design, and estimating. Students use equipment that includes woodworking hand tools, table saw, jointer, surfacer, router, drill press, horizontal boring machine, radial-arm saw, band saw, panel saw, and pneumatic stapler and nailer. Approximately 360 hours are needed to complete this course, although completion depends on a student's attendance, entry-level skills, and rate of progress in class.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic

content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

CIVIL ENGINEERING & ARCHITECTURE 1,2; 3,4 (8171, 8172; 8173, 8174)

CIVIL ENGINEERING & ARCHITECTURE (1-2), (3-4) (8175; 8176)

CIVIL ENGINEERING & ARCHITECTURE COMMUNITY CLASSROOM 5,6 (8177, 8178)

Grade level: 11–12

Prerequisites: Successful completion of Architectural Drafting; Introduction to Engineering Design, *or* ROP Computer-Aided Drafting & Design

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This advanced ROP course is designed to be a capstone course in the architecture and engineering career paths. It is part of the national Project Lead the Way program and is designed to prepare students for careers in architecture. The course provides an overview of the fields of civil engineering and architecture and emphasizes the interrelationship of the two. A major focus of the course is a long-term project involving the development of a local property. As students learn various aspects of civil engineering and architecture, they use the knowledge to design and develop the property via computer simulation and hands-on activities.

This course is offered in the following formats: one hour, two semesters; two hour, one semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant,

applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

COMPUTER-AIDED DRAFTING/ DESIGN 1,2; 3,4 (8961, 8962; 8963, 8964)

COMPUTER-AIDED DRAFTING/ DESIGN (1-2), (3-4) (8992, 8993)

COMPUTER-AIDED DRAFTING/ DESIGN COMMUNITY CLASSROOM 5,6 (8990, 8991)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level, upgrade, and advanced training in drafting and computer-aided drafting (CAD) occupations. Employment possibilities include assistant drafter, drafter, and computer-aided drafter. Instruction covers drafting fundamentals, computer fundamentals, architectural, civil-design, and electronic drafting; and mechanical/machine drafting. Students use equipment including computers, triangles, templates, compasses, drafting machines, reproduction machines, digitizers, and plotters. Approximately 180 hours are needed to complete all areas of instruction. Actual completion of the course depends upon the student's entry-level skills and rate of progress in the class.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 4 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

COMPUTER REPAIR 1,2; 3,4 (8945, 8946; 8584, 8585)

COMPUTER REPAIR (1-2), (3-4) (8947, 8948)

COMPUTER REPAIR COMMUNITY CLASSROOM 5,6 (8586, 8587)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level, upgrade, and advanced training in computer repair. Employment opportunities include PC technician and microcomputer customer representative. Instruction includes safety, basic operating systems, preparation/setup, repairing and building systems, memory systems/repair, advanced operating systems, hard disk preparation/testing, printer set up and repair, introduction to networking, and current technology trends.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level. This course is the capstone course in the Information Support and Services pathway.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

COMPUTERIZED ACCOUNTING 1,2; 3,4 (8603, 8604; 8605, 8606)

COMPUTERIZED ACCOUNTING (1-2), (3-4) (8607, 8608)

COMPUTERIZED ACCOUNTING COMMUNITY CLASSROOM 5,6 (8601, 8602)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level and upgrade training in accounting theory and computerized accounting procedures. Employment possibilities include bookkeeper, payroll clerk, and accounts payable/receivable clerk. Instruction covers the principles of manual and computerized accounting, electronic spreadsheets and job-seeking skills, and includes the use of computers and 10-key printing calculators. Approximately 180 hours are needed to obtain minimum competencies for entry-level employment. Students also may take an additional 180 hours of advanced accounting.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC; CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 5 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

COMPUTERIZED GRAPHIC DESIGN 1,2; 3,4 (8511, 8512; 8513, 8514)**COMPUTERIZED GRAPHIC DESIGN (1–2), (3–4) (8633, 8634)****COMPUTERIZED GRAPHIC DESIGN COMMUNITY CLASSROOM 5,6 (8515, 8516)****Grade level:** 11–12**Prerequisites:** None**Course duration:** One- to four-semester course (see below)**Subject area in which graduation credit is given:** Practical Arts; community classroom sections may be repeated for credit**COURSE DESCRIPTION**

College Preparatory Course (P): 8511, 8512. This course provides entry-and intermediate-level training in computerized graphic design. Students learn basic computer operations, employing page-layout, illustration and photo-manipulation software; peripheral use, including scanners and plotters, and file-management integration. Instruction covers typography, design elements, color management, and hand-drawing techniques. The creative and technical process of project management also is taught, with an emphasis on concept-to-completion planning. 180 hours is needed to complete the course.

The course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 6 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

CONSTRUCTION, GENERAL 1,2; 3,4 (8884, 8885; 8886, 8887)**CONSTRUCTION, GENERAL (1–2), (3–4) (8823, 8824)****CONSTRUCTION, GENERAL COMMUNITY CLASSROOM 5,6 (8888, 8889)****Grade level:** 11–12**Prerequisites:** None**Course duration:** One- to four-semester course (see below)**Subject area in which graduation credit is given:** Practical Arts; community classroom sections may be repeated for credit**COURSE DESCRIPTION**

This course provides pre-apprentice, entry-level, and advanced training in building industry trades and related areas. Employment possibilities include carpenter, roofer, plumber, electrician, maintenance person, and general laborer. Instruction covers foundation design and construction, framing wood structures, roofing materials and installation, plumbing installation, electrical wiring, drywall installation and repair, and safety. Students use equipment that includes hand tools, surveying instruments, power saws, pneumatic tools, and stationary power tools. Approximately 360 hours are needed to meet minimum competencies, although completion depends on a student's entry-level skills and rate of progress in class. Additional areas of instruction also are available.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**CULINARY ARTS & MANAGEMENT 1,2;
3,4 (8760, 8761; 8762, 8763)****CULINARY ARTS & MANAGEMENT 5,6
(8764, 8765)****CULINARY ARTS & MANAGEMENT
COMMUNITY CLASSROOM 7,8 (8778,
8779)****Grade level:** 11-12**Prerequisites:** Must be 16 years of age or older**Course duration:** Two- to six-semester course**Subject area in which graduation credit is given:**
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level, upgrade, and advanced training for careers in the culinary arts and hospitality and tourism industry.. Instruction is given in planning, selecting, purchasing, storing, preparing and serving quantity food and food products; preparing gourmet/ethnic foods, food decorating and marketing, nutritional values, quality control, safety, sanitation regulations, and use and care of commercial equipment. A minimum of 360 hours is needed to complete all aspects of the course. At least 10 hours are required for a student to qualify for a food handler's card. Internship opportunities are available in food and hotel establishments.

This course reinforces core academic content area and California Career Technical Education model curriculum standards in relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course and Foods, Gourmet and International (1168) with a grade of A or B are eligible to earn up to 7 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**DESKTOP PUBLISHING/PREPRESS 1,2
(8977, 8978)****DESKTOP PUBLISHING/PREPRESS 3,4
(8998, 8999)****DESKTOP PUBLISHING/PREPRESS
COMMUNITY CLASSROOM 5,6 (8498,
8499)****Grade level:** 11-12**Prerequisites:** None**Course duration:** Two- to four-semester course**Subject area in which graduation credit is given:**
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is intended to act as a capstone class in the Arts, Media, and Entertainment or Information technology career paths. This course provides provide entry-level (8977, 8978) and intermediate (8998, 8999) instruction in desktop publishing and design for printing, advertising and commercial art. Instruction emphasizes the creative/technical process – working from initial concept to final commercial product or camera-ready design.

Students learn basic computer operations, terminology and use of peripherals. Instruction includes typography, design elements, and color management. Hand-drawing techniques also may be included. Specialized software for page layout, illustration, photo manipulation, and Web design is incorporated. On-the-job training (community classroom experience) also may be offered.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**DEVELOPMENTAL PSYCHOLOGY OF
CHILDREN 1,2; 3,4 (8796, 8797; 8798, 8799)****DEVELOPMENTAL PSYCHOLOGY OF
CHILDREN (1-2), (3-4) (8720, 8721)****DEVELOPMENTAL PSYCHOLOGY OF
CHILDREN COMMUNITY CLASSROOM
5,6 (8782, 8783)****Grade level:** 11-12**Prerequisites:** None

Course duration: Two- to four-semester course
Subject area in which graduation credit is given:
 Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8796, 8797. This course provides training and upgrading of skills for entry-level positions in preschools or child-care programs, including licensed family day care. Instruction covers child development; child health, safety and nutrition; child guidance techniques, and developmentally appropriate curriculum. Working with children in child-care programs, students plan and present educational materials and activities related to language development, math, science, music, art, and motor development. Internships at preschools and elementary schools may be part of the course curriculum.

This course is part of the Education, Child Development & Family Services industry sector sequence of courses.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 6 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

DIETETICS 1,2 (8467, 8468)

DIETETICS COMMUNITY CLASSROOM 3,4 (8469, 8470)

Grade level: 11–12

Prerequisites: None

Course duration: One or two semesters

Subject area in which graduation credit is given:
 Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

The instruction in this course provides entry-level training in the field of dietetics. Students receive

training in basic food preparation and preparation of special diets. They also receive instruction to obtain a food handler's card and ServSafe certification. This certification addresses the safety and sanitation requirements of a commercial kitchen. Students learn to research information that allows them to evaluate individual diets for the adequacy of essential nutrients, for the utilization of nutrients by the body, and for the contribution of nutrients to general health. They also conduct research into dietary needs during the life cycle; food regulations by government agencies; impact of additives; environmental contaminants; food-borne illnesses; cultural factors in food choices; and new food technology.

Internship training in institutional kitchen settings is included in the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

DIGITAL ART & MIXED MEDIA 1,2; 3,4 (8091, 8092; 8093, 8094)

DIGITAL ART & MIXED MEDIA 1-2; 3-4 (8095; 8096)

DIGITAL ART & MIXED MEDIA COMMUNITY CLASSROOM 5,6 (8097, 8098)

Grade level: 11–12

Prerequisites: Art 1,2.

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
 Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8091–8096. This course acts as a capstone in the Arts, Media, and Entertainment career path, providing students with an additional course option at this level. It offers advanced training in digital photography, including

instruction in composition and color dynamics in the field of digital media. Students use digital cameras, scanners, computers, and printers to produce projects related to the industry. Training in the use of photo-editing and image-manipulation software is incorporated into the instructional plan.

This course is offered in the following formats: one hour, two semesters; two hour, one semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

DIGITAL ELECTRONICS 1,2; 3,4 (8957, 8958; 8959, 8960)

DIGITAL ELECTRONICS (1-2), (3-4) (8843, 8844)

DIGITAL ELECTRONICS COMMUNITY CLASSROOM 5,6 (8588, 8589)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This Project Lead the Way course provides entry-level, upgrade, and advanced training in electronics technician occupations. Employment possibilities include electronics technician, test technician, quality control tester, quality assurance technician, and repair technician. Instruction covers safety, AC and DC electronics, semiconductor devices, electronic circuits, communications, IC timers, operational amplifiers, digital techniques, microprocessors, and computer technology. Students use equipment that includes meters, oscilloscopes, function generators, frequency counters, and computers. Completion of the course depends upon the student's entry-level

skills and rate of progress. Approximately 180 hours of attendance are needed to meet minimum competencies.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students may earn up to 5 college credits for this course through an articulation agreement with San Diego City College.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

E-COMMERCE 1,2; 3,4 (8321, 8322; 8323, 8324)

E-COMMERCE (1-2), (3-4) (8325, 8326)

E-COMMERCE COMMUNITY CLASSROOM 5,6 (8327, 8328)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is designed to be a capstone course in the Marketing, Sales, and Service industry sectors. It provides entry- and advanced-level training in the field of e-commerce. Students in this course will learn how to apply Internet technologies to the design and/or redesign of business processes. Students will master appropriate business theory and learn how to transform key business processes through the use of on-line technologies, including the design of database-enabled websites.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one

hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

ECONOMICS & INTERNATIONAL TRADE 1,2; 3,4 (8629, 8630; 8631, 8632)

ECONOMICS & INTERNATIONAL TRADE 1-2, 3-4 (8538, 8539)

ECONOMICS & INTERNATIONAL TRADE COMMUNITY CLASSROOM 5,6 (8536, 8537)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Social Studies, i.e., Economics (8629, 8630, 8538 only); Practical Arts (remainder); community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is a capstone course in the Marketing and Professional Services career-path sequence. The course will increase students' understanding of how individuals and groups use their available resources to try to satisfy their basic needs and wants. Students will be provided with a thorough understanding of the principles of economics that apply to the functions of individual decision makers within larger economic systems, and of the principles that apply to an economic systems as a whole. Students will have the additional opportunity to develop entry level job skills through related internships with a specific focus on the global economy, international banking, world trade, import/export practices, international finance and foreign exchange. A highlight of the course is a week-long seminar presented by Chamber of Commerce members of the World Trade Association and international businesses in San Diego.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; and two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

Only the community classroom portion of the course may be taken more than once for credit.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

ENGINEERING DESIGN & DEVELOPMENT 1,2 (8404, 8405)

ENGINEERING DESIGN & DEVELOPMENT 3,4 (8406, 8407)

ENGINEERING DESIGN & DEVELOPMENT COMMUNITY CLASSROOM 5,6 (8408, 8409)

Grade level: 11–12

Prerequisites: Introduction to Engineering Design I & II (3542, 3544; 3547, 3548), Principles of Engineering, or equivalent, *or* prior approval of instructor

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is designed to act as a capstone in the Manufacturing and Product Development and the Engineering career paths, and replaces the Principles of Engineering course at the twelfth-grade level. It also is a culminating course in the Project Lead the Way program of pre-engineering courses. Students in this course apply principles learned in prerequisite courses as they work in teams to research, develop, and construct a solution to an open-ended engineering problem, guided by a community mentor. They present progress reports, submit a final written report, and defend their

solution to a panel of outside experts at the course's culmination. Approximately 180 to 360 hours of instruction are required to complete the course, depending on the requirements of the site at which it is offered.

The course is offered in the following formats: one hour, one semester, and two hour, one semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

FASHION DESIGN 1,2 (8766, 8767)

FASHION DESIGN 3,4 (8768, 8769)

Grade level: 11-12

Prerequisites: Some sewing ability recommended

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts

COURSE DESCRIPTION

This course provides entry level training in basic pattern development, beginning drawing/sketching of garments, methods of draping and drafting, major patternmaking principles for garment contour, and the application of art and design elements in pattern design. The use of fashion-industry equipment, tools, and instruments are a part of the instructional program that meet the growing needs of this industry and prepare students with the knowledge and skills to pursue related careers and additional postsecondary education and training for technical and professional level positions.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

FASHION MERCHANDISING 1,2; 3,4 (8671, 8672; 8673, 8674)

FASHION MERCHANDISING (1-2), (3-4) (8558, 8559)

FASHION MERCHANDISING COMMUNITY CLASSROOM 5,6 (8675, 8676)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in sales and merchandising in the retail fashion industry. Employment possibilities include sales associate, stock assistant, cashier, and customer-service representative. Instruction covers personal color analysis, clothing image and impact, marketing, math, cashiering, sales techniques, sales support activities, visual presentation, résumé writing, and job-seeking/job-keeping skills. A minimum of 180 hours is required for entry-level employment competencies.

The course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

GIS & GLOBAL TECHNOLOGY 1,2; 3,4
(8291, 8292; 8293, 8294)

GIS & GLOBAL TECHNOLOGY (1-2);
(3-4) (8295, 8296)

GIS & GLOBAL TECHNOLOGY
COMMUNITY CLASSROOM 5,6 (8297,
8298)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

Note: This course meets the district's computer literacy requirement for high school graduation

COURSE DESCRIPTION

This course is intended to act as a capstone course in the Information Support and Services career pathway. It provides a basic understanding of concepts in computer technology literacy, Global Positioning Systems (GPS), Geographic Information Systems (GIS), and career opportunities in these fields. Students in this course will engage in GIS management, troubleshooting and applied operations, GPS data acquisition and mapping, and project management. They will collect and analyze data and information, read graphs and charts, and write reports.

The course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

HEALTHCARE ESSENTIALS 1,2 (8424,
8425)
HEALTHCARE ESSENTIALS 3,4 (8426,
8427)
HEALTHCARE ESSENTIALS
COMMUNITY CLASSROOM 5,6 (8428,
8429)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

Note: This course is a companion course to either the ROP Nurse Assistant/Home Health Aide or ROP Medical Assistant courses at all sites.

Healthcare Essentials is an intermediate/capstone-level course in the Health Services and Medical Technology industry sector and is aimed at all students interested in pursuing a career in health care. The course covers a common set of skills and knowledge needed by all healthcare workers, and prepares students for the more-advanced, occupation-specific courses offered through ROP in this field. Instruction covers medical terminology, communications skills, socioeconomics, safety and health maintenance, body structure and function, and ethical and legal responsibilities. The course is designed to help students determine their specific area of interest, and students will develop individual career portfolios consistent with their aspirations in the field of health care.

This course is offered in the following formats: one hour, two semesters; two hours, one semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

HOSPITALITY, TOURISM 1,2; 3,4 (8481, 8482; 8483, 8484)**HOSPITALITY, TOURISM COMMUNITY CLASSROOM 5,6 (8485, 8486)**

Grade level: 11-12

Prerequisites: None

Course duration: Two- to four-semester course

Subject area in which graduation credit is given:

Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level preparation for advanced training in the Hospitality, Tourism and Recreation industry sector. Instruction provides overviews of the following industries: hospitality/tourism, lodging, food and beverage, recreation and leisure, and travel. Other areas covered include, customer service skills, food safety and sanitation, all aspects of industry labor laws, workplace and job-acquisition skills, and safety. Students will be awarded competency certificates upon successful completion of the course. Internships opportunities are also part of the curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 6 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

INFORMATION TECHNOLOGY AND NETWORKING 1,2; 3,4 (8474, 8475; 8476, 8477)**INFORMATION TECHNOLOGY AND NETWORKING (1-2), (3-4) (8478, 8479)****INFORMATION TECHNOLOGY AND NETWORKING COMMUNITY CLASSROOM 5,6 (8487, 8488)**

Grade level: 11-12

Prerequisites: Computer Science 1,2 *or* Computer Science 3,4 *or* Computer Applications in Business 1,2 *or* Keyboarding/Computer Literacy 1.

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

Note: This course meets the district's computer literacy requirement for high school graduation

COURSE DESCRIPTION

This ROP course is designed to provide entry-level training in computer operating systems and network administration. Instruction includes network topologies, installation and configuration of the Windows operating system, managing resources, troubleshooting problems, and installation of peripherals. The course is designed to be a capstone class in the Information Technology industry sector.

This course is offered in four formats: one hour, one semester; two hour, one semester; one hour, two semester; and two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course sequence.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

INTERIOR DESIGN 1,2; 3,4 (8985, 8986; 8987, 8988)**INTERIOR DESIGN (1-2), (3-4) (8780, 8781)**

INTERIOR DESIGN COMMUNITY CLASSROOM 5,6 (8996, 8997)

Grade level: 11-12

Prerequisites: None

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in interior design/home furnishings. It is designed to prepare students for employment in furniture stores, home-furnishing sections of department stores, and interior-design studios. Instruction covers elements and principles of design, architecture and furniture styles; construction basics, selecting furniture and choosing backgrounds, color theory, space planning, scale drawing, and computer-aided drafting. Students learn how to analyze floor plans; create color schemes, furniture arrangements, and room themes; analyze, select, and estimate quantity and cost of window treatments, wall coverings, and floor coverings.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

INTRODUCTION TO TEACHING & LEARNING 1,2 (8784, 8785)

INTRODUCTION TO TEACHING & LEARNING 3,4 (8786, 8787)

INTRODUCTION TO TEACHING & LEARNING COMMUNITY CLASSROOM 5,6 (8788, 8789)

Grade level: 11-12

Prerequisites: For Introduction to Teaching & Learning 3,4: successful completion of Introduction to Teaching & Learning 1,2 *or* Developmental Psychology of Children 1,2 *or* teacher recommendation.

Course duration: Two-semester courses

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8784, 8785, 8786, 8787. These two-semester courses prepare students to assist teachers in carrying out standards and objectives in a K-12 classroom. Instruction includes program planning for the growth and development of school-age children, educational activities, reading-acquisition and reinforcement techniques, health and safety concerns, and classroom management skills. Students use computer technology to organize and prepare teaching materials. Internships at elementary, middle, and high schools are part of the curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 4 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

LAW ENFORCEMENT CAREERS 1,2; 3,4 (8342, 8343; 8344, 8345)

LAW ENFORCEMENT CAREERS (1-2), (3-4) (8346, 8347)

LAW ENFORCEMENT CAREERS COMMUNITY CLASSROOM 5,6 (8348, 8349)

Grade level: 11-12

Prerequisites: None

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is designed to acquaint students with both the history and theory of law enforcement, as well as arm them with practical knowledge about law enforcement occupations. Students in this course develop an understanding of the institutions and agencies within the administration of justice, as well as criminal, traffic, and juvenile law, judicial proceedings, substance abuse, and emergency preparedness. The importance of effective communications and interpersonal skills is also emphasized.

This course is offered in the following formats: two hour, one semester or one hour, two semesters. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

LAW OFFICE PROCEDURES 1,2 (8393, 8394)

LAW OFFICE PROCEDURES 3,4 (8395, 8396)

**LAW OFFICE PROCEDURES
COMMUNITY CLASSROOM 5,6 (8397, 8398)**

Grade level: 11-12

Prerequisites: None

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is designed to serve as a capstone course for the Public Service career pathway. The course provides entry-level training in legal office procedures. Students get hands-on experience in business and personal law, including the preparation of legal papers and correspondence such as summonses, complaints, motions, and subpoenas. Instruction in legal terminology, procedures, and documents is included. Students may prepare and send bills to clients, record appointments, and maintain client files. Internships are an integral part of this curriculum.

This course is offered in the following formats: two hour, one semester or one hour, two semesters. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

MACHINE TOOL TECHNOLOGY 1,2; 3,4 (8812, 8813; 8814, 8815)

MACHINE TOOL TECHNOLOGY (1-2), (3-4) (8818, 8819)

**MACHINE TOOL TECHNOLOGY
COMMUNITY CLASSROOM 5,6 (8556, 8557)**

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in machine

tool technology occupations. Employment possibilities include machine operator and beginning machinist. Instruction covers the following areas: precision measurement, layout, grinding, sawing/cutting, drill press, print reading, related technical math, and an introduction to CAD/CAM systems. Students use equipment that includes measurement and layout tools, drill presses, saws, lathes, vertical mills, computer numerical control, and milling center machines. Approximately 360 to 570 hours are needed to complete this course.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 4 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**MARKETING, MEETING/SPECIAL
EVENT PLANNING 1,2; 3,4 (8490, 8491;
8492, 8493)**

**MARKETING, MEETING/SPECIAL
EVENT PLANNING (1-2), (3-4) (8494, 8495)**

**MARKETING, MEETING/SPECIAL
EVENT PLANNING COMMUNITY
CLASSROOM 5,6 (8496, 8497)**

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in event

planning, sales and marketing. Employment possibilities include event planner, meeting manager, wedding consultant, and certified trade show marketer. Instruction includes selling, promotion, budget and finance, negotiations and contracts, room set-up, food and beverages, and health and safety relating to exhibitions, trade shows and special events. The course is designed to be a capstone course in the Marketing and Professional Sales industry sector.

This course is offered in four formats: one hour, one semester; two hour, one semester; one hour, two semester; and two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course sequence.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**MEDICAL ASSISTANT
(ADMINISTRATIVE) 1,2,3 (8717, 8718,
8719)**

Grade level: 11-12

Prerequisites: Ability to type 25 wpm; good physical health; negative TB test or chest X-ray

Course duration: One semester; double- or triple-period course

Subject area in which graduation credit is given: Practical Arts

COURSE DESCRIPTION

This one-semester, double-or triple-period course prepares students to work in a medical office performing a wide range of administrative and/or front-office duties. Computers and medical practice management software are used. Internship in a doctor's office and/or medical facility is a required part of this course.

This course is designed to reinforce core academic

content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

None.

MEDICAL ASSISTANT (CLINICAL) 4,5,6 (8722, 8723, 8724)

MEDICAL ASSISTANT (CLINICAL) COMMUNITY CLASSROOM 7,8 (8898, 8899)

Grade level: 11–12

Prerequisites: Ability to communicate accurately and succinctly, both verbally and in writing; basic understanding of anatomy, physiology, and microbiology.

Course duration: One or two semesters; double-period course

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This one-or two-semester, double-period course provides entry-level training for work as a clinical assistant in a doctor's office or clinic. Students learn medical terminology, body structure and function, emergency care, medical/surgical asepsis, patient physical examinations, introduction to pharmacology, electrocardiography, law and ethics in the medical office, and laboratory skills. Students may participate in an internship in a doctor's office or a small clinic for optimum development of their skills and competencies. Academic skills are integrated throughout the curriculum, with an emphasis on the decision-making and critical-thinking skills necessary for successful employment as a clinical assistant.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

None.

MEDICAL OCCUPATIONS/FIRST RESPONDER 1,2; 3,4 (8353, 8354; 8355, 8356)

MEDICAL OCCUPATIONS/FIRST RESPONDER COMMUNITY CLASSROOM 5,6 (8357, 8358)

Grade level: 11–12

Prerequisites: None

Course duration: Two- to four-semester course

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is designed to serve as a capstone course in the health sciences and medical technology career path as well as the public service career path at its pilot site. This course is intended for students who are interested in exploring, or pursuing, careers as fire fighters, paramedics, EMT personnel, life guards, doctors, or nurses, or who are interested in pursuing work in the fields of sports medicine, medical transcription, medical records, or any other medical/clerical field. A background in medical terminology and anatomy/physiology is helpful, but not required. The course covers job skills, community service roles, and career exploration.

This course is offered in the following formats: two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum for this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

None.

MULTIMEDIA PRODUCTION 1,2; 3,4
(8839, 8840; 8841, 8842)

MULTIMEDIA PRODUCTION (1-2), (3-4)
(8572, 8573)

**MULTIMEDIA PRODUCTION
COMMUNITY CLASSROOM 5,6** (8570,
8571)

Grade level: 11-12

Prerequisites: None

Course duration: Two- to four-semester course

Subject area in which graduation credit is given:

Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8839, 8840, 8572.

This course provides instruction in media technology and production. Instruction covers audio and video production, computer graphics and animation, and multimedia presentations, as well as the use of video recorders, cameras, projectors, special-effects generators, audio mixers, electronic keyboards, computers, scanners, digitizers, and printers. The media-production skills learned in this course also enhance the qualifications of students intending to work as graphic artists, photographers, programmers and musicians. Employment possibilities include Web designer, animator, sound technician and video-production assistant. Self-employment in the areas of video production, music, and graphic design also is possible. This course is part of the Media and Design Arts pathway.

This course is offered in the following formats: two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum for this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 11 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**NURSE ASSISTANT/HOME HEALTH
AIDE 1,2; 3,4** (8461, 8462; 8463, 8464)

**NURSE ASSISTANT/HOME HEALTH
AIDE (1-2), (3-4)** (8713, 8714)

**NURSE ASSISTANT/HOME HEALTH
AIDE COMMUNITY CLASSROOM 5,6**
(8465, 8466)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:

Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course prepares students for the state-approved test for certification as a nurse assistant/home health aide. Supervised clinical experience takes place in long-term, acute-care or home-health facilities. Students may not participate in the mandatory portion of clinical training that requires direct contact with residents in long-term care facilities until they have undergone a physical examination, an intradermal skin test for tuberculosis, a criminal background check, and have been fingerprinted.

This course is offered in the following formats: one hour, two semesters; two hours, one semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

PHOTOGRAPHIC IMAGING 1,2 (8105,
8106)

PHOTOGRAPHIC IMAGING 3,4 (8107,
8108)

**PHOTOGRAPHIC IMAGING
COMMUNITY CLASSROOM 5,6** (8109,
8110)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8105–8108. This course provides advanced training in digital photography and includes instruction in composition and color dynamics in the field of digital media. The course focuses on the communication of ideas through photography, as well as light and environmental controls. Students use digital cameras, scanners, computers and high-end printers to produce projects related to the industry. Training in the use of specialized software for photo editing and image manipulation is incorporated into the instructional plan.

This course is offered in the following formats: one hour, two semesters; two hour, one semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course reinforces core academic content area and California Career Technical Education model curriculum standards in relevant, applied setting, appropriate to the subject and grade level. This course is part of the Media and Design Arts pathway.

Note: Students competing this course with a grade of A or B are eligible to earn up to 3 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

PRINCIPLES OF ENGINEERING 1,2; 3,4
(8847, 8848; 8801, 8831)

PRINCIPLES OF ENGINEERING (1–2), (3–4) (8871, 8872)

**PRINCIPLES OF ENGINEERING
COMMUNITY CLASSROOM 5,6** (8838, 8845)

Grade level: 11–12

Prerequisites: Introduction to Engineering and Design I and II, or teacher recommendation

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given:
Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

College Preparatory Course (P): 8847, 8848, 8871. This Project Lead the Way course provides entry-level training in engineering technology and helps prepare students for post-secondary education. The course helps students understand the fields of engineering and engineering technology. Students explore various technology systems and manufacturing processes, which helps them learn how engineers and technicians use mathematics, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change. Students use computers, measuring instruments, testing equipment, and computer-controlled automation equipment.

This course is offered in the following formats: two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

**PRINTING AND GRAPHICS
TECHNOLOGY 1,2; 3,4** (8965, 8966; 8967, 8968)

**PRINTING AND GRAPHICS
TECHNOLOGY (1–2), (3–4)** (8994, 8971)

**PRINTING AND GRAPHICS
TECHNOLOGY COMMUNITY
CLASSROOM 5,6** (8969, 8970)

Grade level: 11–12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level and upgrade training in the printing and graphics industry. Employment possibilities include typesetter/desktop publisher, layout/paste-up artist, process camera operator, and press operator. The curriculum is based on the requirements of the Printing Industries of America (PIA) PrintED certification program. Instruction covers safety, graphic design, desktop/electronic publishing, graphic-arts photography, image assembly and plate making, press operations, binding and finishing, screen-printing, and job-search skills. Students use equipment that includes the personal computer, light table, process camera, film processor, platemaker, offset press, paper cutter, folder, and screen-printing equipment. Between 360 to 540 hours of attendance are needed to complete this course.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

SALES AND MERCHANDISING 1,2; 3,4 (8677, 8678; 8679, 8680)

SALES AND MERCHANDISING (1-2), (3-4) (8527, 8528)

SALES AND MERCHANDISING COMMUNITY CLASSROOM 5,6 (8517, 8518)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in sales and merchandising. Employment possibilities include sales clerk, counter clerk, and cashier. Instruction covers the following topics: marketing, math, cashiering, sales techniques, store operations and job-search skills. Students use equipment that includes cash registers, calculators, and credit-card imprinters. Approximately 180 hours are needed to complete the course.

The course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

SCREEN PRINTING 1,2; 3,4 (8882, 8883; 8851, 8852)

SCREEN PRINTING (3-4) (8880)

SCREEN PRINTING COMMUNITY CLASSROOM 5,6 (8855, 8856)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course provides entry-level training in the

broad area of screen-process printing. Employment possibilities include stencil maker, screen printer, and textile printer. Instruction covers job layout, copy camera use, stencil making, and screen-process printing. Students use equipment, including computers, process cameras, light tables, power cutters, shirt printers, and ink dryers.

Approximately 180 hours are needed for this course, although completion depends upon the student's entry-level skills and rate of progress in the class.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

SIGN LANGUAGE INTERPRETER 1,2; 3,4 (8621, 8622; 8623, 8624)

SIGN LANGUAGE INTERPRETER (1-2), (3-4) (8625, 8626)

SIGN LANGUAGE INTERPRETER COMMUNITY CLASSROOM 5,6 (8627, 8628)

Grade level: 11-12

Prerequisites: None

Course duration: Two- to four-semester course

Subject area in which graduation credit is given:

Elective; community classroom sections may be repeated for credit

COURSE DESCRIPTION

Sign Language Interpreter is a two-hour-a-day, two-semester course, with a paid summer internship (7 weeks, 4 hours a day) that teaches advanced American Sign Language (ASL) and sign-language interpreting skills. The course emphasizes educational interpreting in the K-12 setting. Instruction includes Signed English systems (PSE), deaf culture, sign-to-voice interpreting, interpreting

in public schools, language learning in deaf and hard-of-hearing (d/hh) children; and legal, ethical, and technical issues. The primary language of instruction is ASL. The course is designed to prepare students for employment and/or advanced study in sign-language interpreting.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students may earn up to 12 college credits through an articulation agreement with Mesa College in the San Diego Community College District.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

SMALL ANIMAL CARE & MANAGEMENT 1,2 ;3,4 (8141, 8142; 8143, 8144)

SMALL ANIMAL CARE & MANAGEMENT 1-2; 3-4 (8145; 8146)

SMALL ANIMAL CARE & MGNT. COMMUNITY CLASSROOM 5,6 (8147, 8148)

Grade level: 11-12

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given:

Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course serves as a capstone course in both the Environmental Sciences and Natural Resources and the Health Sciences industry sector sequences of courses.

It focuses on the care of animals in a variety of group settings, including veterinary hospitals, humane societies, and biomedical research laboratories. Instruction covers animal handling and restraint, health and safety, sanitation, infectious diseases, instrument and equipment identification, vaccine preparation and injection techniques, laws and

ethics, and veterinary office procedures. Emphasis is on common laboratory species, animal welfare legislation, and the philosophy of laboratory animal management. Lab animal breeding, anesthesia, clinical pathology, sample collection, medication, nutrition, euthanasia, and necropsy also are taught. Appropriate biomedical terminology is included.

This course is offered in the following formats: one hour, one semester; two hours, one semester; one hour, two semesters; and two hours, two semesters. Paid and unpaid internships (CC and CVE) are part of the curriculum of the course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

SOFTWARE DESIGN 1,2 ;3,4 (8281, 8282; 8283, 8284)

SOFTWARE DESIGN (1-2), (3-4) (8285; 8286)

SOFTWARE DESIGN COMMUNITY CLASSROOM 5,6 (8287, 8288)

Grade level: 11–12

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course is designed as a capstone course for several of the career pathways in the Information Technology industry sector. It provides entry-level and advanced training in the field of software programming and engineering. Students will experience project management, programming languages as applied to games, robotics, website development, and wireless technologies. Employment possibilities include entry-level programmer, computer software support, website designer, and other related software design occupations.

This course is offered in the following formats: one hour, one semester; two hours, one semester; one hour, two semesters; and two hours, two semesters. Paid and unpaid internships (CC and CVE) are part of the curriculum of the course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

TECHNOLOGY SUPPORT SERVICES 1,2; 3,4 (8923, 8924; 8925, 8926)

TECHNOLOGY SUPPORT SERVICES (1-2), (3-4) (8927; 8928)

TECHNOLOGY SUPPORT SERVICES COMMUNITY CLASSROOM 5,6 (8939, 8940)

Grade level: 11–12

Prerequisites: Computer Science 1,2 *or* Computer Applications in Business 1,2, *and/or* experience in computer applications, networking, and repair.

Course duration: Two- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

Note: This course meets the district's computer literacy requirement for high school graduation

COURSE DESCRIPTION

This course is designed to act as a capstone class for career paths in computer science and information systems, and electronic technology. The course provides entry-level training in the design, development, implementation and support of an organizational technology plan. Students get hands-on experience in a variety of areas, including software and hardware troubleshooting, computer repair and maintenance, help desk, and networking essentials. Employment possibilities include systems engineer, technical service and support, and network specialist. A range of 360 to 500 hours is needed to complete the course.

This course is offered in the following formats: one

hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 4 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

TRANSLATION SERVICES 1,2; 3,4 (8111, 8112; 8113, 8114)

TRANSLATION SERVICES 1-2; 3-4 (8115; 8116)

**TRANSLATION SERVICES
COMMUNITY CLASSROOM 5,6 (8117, 8118)**

Grade level: 11-12

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This course offers students the opportunity to capitalize on knowledge of a second language by teaching them how to translate documents and interpret oral communication between English- and non-English-speaking persons. Spanish is the non-English language targeted; elsewhere it would depend on local needs. The focus is on helping students develop written and oral skills in both languages through a study of the theory and practice of translating and interpreting. In addition to grammatical concepts and vocabulary enrichment, students learn about social and cultural factors that can affect the accuracy of translations, and explore opportunities for advanced training and employment in the field. They also participate in realistic classroom projects and work-based experiences using industry-standard equipment.

This course is offered in the following formats: one hour, one semester; two hours, one semester; one hour, two semesters; and two hours, two semesters. Paid and unpaid internships (CC and CVE) are part of the curriculum of the course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

WEB DATABASE DESIGN 1,2; 3,4 (8657, 8658; 8659, 8660)

WEB DATABASE DESIGN (1-2), (3-4) (8661, 8662)

**WEB DATABASE DESIGN COMMUNITY
CLASSROOM 5,6 (8849, 8850)**

Grade level: 11-12

Prerequisites: Algebra 1-2 (4041, 4042) *and either* Web Programming (4430, 4440) *or* Computer Applications in Business (0723, 0724).

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given: Practical Arts; community classroom sections may be repeated for credit

COURSE DESCRIPTION

This is a capstone course in the Information Technology industry sector sequence of courses. The course is part of a pilot program of the Oracle Internet Academy and prepares students for industry-standard certification testing. Students start off by studying Internet programming concepts and database design, and then use their newfound knowledge to create database-generated Web sites. Students who complete the course successfully are eligible to certify their skills through examinations that are recognized by Oracle, IBM, Sun Microsystems, and Novell.

This course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the course curriculum.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.

WEB SITE DESIGN 1,2; 3,4 (8931, 8932; 8933, 8934)

WEB SITE DESIGN (1-2), (3-4) (8935, 8936)

WEB SITE DESIGN COMMUNITY CLASSROOM 5,6 (8937, 8938)

Grade level: 11-12

Prerequisites: None

Course duration: One- to four-semester course (see below)

Subject area in which graduation credit is given:

Practical Arts; community classroom sections may be repeated for credit

Note: This course meets the district's computer literacy requirement for high school graduation

COURSE DESCRIPTION

This course provides students with entry-level training in Web-site management and design, and introduces them to career opportunities specific to the field. Students learn design concepts by developing Web sites, Web animation, and other Web-based products.

The course is offered in the following formats: one hour, one semester; two hour, one semester; one hour, two semester; two hour, two semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

This course is designed to reinforce core academic content areas and California Career Technical Education model curriculum standards in a relevant, applied setting, appropriate to the subject and grade level.

Note: Students competing this course with a grade of A or B are eligible to earn up to 4 units of community college credit.

BASIC TEXTS AND TEACHING GUIDES

Each site selects its own resources from available publications.