

FABRICATION AND DESIGN 1,2; 3,4 (8311, 8312; 8313, 8314)
FABRICATION AND DESIGN 1–2; 3–4 (8315, 8316)
FABRICATION AND DESIGN COMMUNITY CLASSROOM 5,6 (8317, 8318)
ROP: PILOT COURSE

Grades 11–12 (P). Prerequisites: Successful completion of either Art 1,2 (0191, 0192) or Introduction to Fabrication and Design 1,2 (3591, 3592). **Note:** This course is in its second pilot year (2008-09).

This course is designed to be a capstone course in the media and design arts path of courses. The focus of this course is on the technical, organizational, and managerial skills and knowledge necessary to bring visual works of art to the public. Students in this course will expand their skills in creating public art using materials such as metal, wood, and ceramic. Students will install projects for the school and community, using tools, techniques, and processes from the sculpture and fabrication fields.

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

Credit for this course counts toward the practical arts credits required for high school graduation. Only the community classroom portion of the course may be taken more than once for credit. The course also satisfies the VPA ('f' subject area) requirement for admission to UC/CSU.

Pilot site: University City High School.



FIRE PROTECTION TECHNOLOGY 3,4 (ROP) (8253, 8254)
ROP: PILOT COURSE

Grades 10–12. Prerequisite: Successful completion of Fire Protection Technology 1,2; prior approval of instructor. **Note:** This course is in the second year of a two-year pilot (2008-09). Modifications were made to the course at the end of the first pilot year, and include the following changes: The course was changed from a Career Technical Education Department course to an ROP course; its course numbers were changed from 0673, 0674 to 8253, 8254; it was reclassified from an intermediate to a capstone career-path course; and the word "(ROP)" was added to its course title. These changes became effective fall 2008, at the start of its second pilot year.

This two-semester Regional Occupational Program capstone course builds on the instruction begun in Fire Protection Technology 1,2. Students explore career opportunities in fire protection and related fields, while learning about fire-service nomenclature, basic fire chemistry and physics, and fire strategy and tactics. This course focuses on manipulative training, fire apparatus familiarization, company operations, and incident command systems.

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

Pilot site: Lincoln High School, Center for Public Safety.



NATEF AUTOMOTIVE TECHNOLOGY 1,2; 3,4 (8191, 8192; 8193, 8194)
NATEF AUTOMOTIVE TECHNOLOGY 1–2; 3–4 (8195, 8196)
NATEF AUTOMOTIVE TECHNOLOGY COMMUNITY CLASSROOM 5,6
(8197, 8198)
ROP: SITE-ADOPTED COURSE

Grades 11–12. This National Automotive Technician Education Foundation (NATEF)-certified course provides entry-level training in servicing and quick-service maintenance of motor vehicles. Instruction will include introduction to brake services, steering and suspension, and electrical and engine-performance systems. Students in this course will use equipment including tire machines, alignment equipment, brake lathes, wheel balances, power and hand tools, voltmeters, battery testers, battery chargers, vehicle lifting equipment, fluid exchange equipment, scan tools and lube equipment.

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

Credit for this course counts toward the practical arts credits required for high school graduation. Only the community classroom portion of the course may be taken more than once for credit.

Approved sites: Crawford IDEA, Clairemont, Madison, and Point Loma High Schools, and San Diego SciTech.



NATEF BRAKES, STEERING, & SUSPENSION 1,2; 3,4 (8241, 8242; 8243, 8244)
NATEF BRAKES, STEERING, & SUSPENSION 1–2; 3–4 (8245, 8246)
NATEF BRAKES, STEERING, & SUSPENSION COMMUNITY CLASSROOM 5,6
(8247, 8248)
ROP: SITE-ADOPTED COURSE

Grades 11–12. This course provides entry-level and advanced training in automotive suspension, steering, and brake service. The curriculum is based on the requirements specified by the National Automotive Technician Education Foundation (NATEF) and Automotive Service Excellence (ASE) certification standards. Instruction covers safety, wheel and tire diagnosis and repair, suspension systems, wheel alignment, steering systems, brake hydraulic systems, drum brakes, disc brakes, power-assist brake units, anti-lock brake systems, Bureau of Automotive Repair (BAR) rules and regulations, and miscellaneous service. Approximately 360 hours are needed to complete this course, although completion depends on 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 hours, one semester. Paid and unpaid internships (CC and CVE) are part of the curriculum of this course.

Credit for this course counts toward the practical arts credits required for high school graduation. Only the community classroom portion of the course may be taken more than once for credit.

Approved sites: Crawford IDEA, Clairemont, Madison, and Point Loma High Schools, and San Diego SciTech.

