

# Engineering

Victor Valley College does not offer an Engineering program for transfer, but does however offer preparatory courses needed for transfer for transfer into a School of Engineering. These course our offered through our Computer Integrated Design and Graphics (CIDG) Department. Students can obtain Engineering related certificates that will assist in preparing them to enter into a school of Engineering at the university level. An Associate of Science for Transfer degree in Mathematics is highly recommended for those students wanting to transfer into a School of Engineering. Students seeking an Associate of Science degree in CIDG are positioned to enter straight into the workforce.

Engineers seek to understand and solve a broad range of technical problems faced by our society. Engineers are responsible for such projects as converting raw materials and power sources into useful products, developing scientific equipment, and designing and planning the construction of buildings, highways, and rapid transit systems. As society becomes more technologically complex, so do the ever-emerging branches of engineering. The rigorous curriculum of engineering programs is for high achieving students who have developed good study habits and possess a strong math and science background. No associate degree is offered with a major in Engineering from Victor Valley College. Because the math and science requirements are so extensive, students usually pursue an associate degree with a major in Math/Science.

## Transfer

Engineering is a highly competitive transfer degree which is impacted at many universities. There are over 200 different career fields in the Engineering area. The following courses are minimal requirements for most engineering majors: CHEM 100, 201, 202; MATH 226, 227; PHYS 201, 202, 203.

IGETC or CSU General Education-Breadth Requirements are not always appropriate for an engineering major; for the most current information, visit [www.assist.org](http://www.assist.org).

- UC campuses offering Engineering majors include: Berkeley, Davis, Irvine, Santa Barbara, San Diego, Santa Cruz, Riverside and Los Angeles (UCLA)
- CSU Campuses offering Engineering majors include: Dominguez Hills, Chico, Fresno, Long Beach, Los Angeles, Northridge, Pomona, Sacramento, San Diego, San Francisco, San Jose, San Luis Obispo, Sonoma, and Maritime Academy.
- Private schools offering Engineering majors include: University of Southern California (USC), Stanford, CalTech, and Harvey Mudd College

## Degrees and Certificates Awarded

Associate of Science for Transfer, ADT Mathematics  
Drafting Technician I Certificate  
Architectural CADD Technician I Certificate

Associate in Science, CIDG  
CADD I Technician I Certificate

## Career Opportunities

Mechanical Engineer, CAD Operator, Chemical Engineer, Computer Engineer, Electrical Drafter, Electronics Drafter, Electrical Engineer, Mechanical Drafter, Public Works Technician, Steel Fabricator Drafter, Structural Engineer, Structural Drafter

**Note:** Associate of Science Degree programs require completion of at least 60 units of credit, which normally will take 4 semesters. Certificate programs, many of which lead to an Associate of Science degree, vary in the number of units required. Most can be completed in 2 - 4 semesters. Each course required for a certificate must be completed with a "C" grade or better. All can be counted toward its related degree.