



ENGINEERING DRAFTING TECHNOLOGY PROGRAM

Associate of Science Degree

PURPOSE

This program prepares students to enter the field of engineering drafting at the entry level as a drafter, plans checker, engineering aide, estimator, etc. The program is for students interested in the mechanical, electrical, and technical systems, and provides the student with course work in drawing, mathematics, and engineering.

MAJOR COURSES

- Introduction to Engineering Drafting & Design
- Basic Engineering Drafting 1
- Basic Engineering Drafting 2
- Engineering Design and Graphics
- Engineering Drafting and Design 1
- Physical Science with Lab
- Architectural Drafting 1
- Architectural Drafting 2
- Introduction to Engineering and Architecture
- Advanced Topics in CAD
- Materials in Engineering
- Properties of Materials
- Statics and Strength of Materials
- Construction Blueprint Reading
- General Computer Literacy
- Intermediate Algebra
- Precalculus

CAREER OPPORTUNITIES

- Engineering Drafter
- Mechanical Drafter
- Civil Drafter
- Electrical Drafter
- Electronics Drafter

FACULTY ADVISORS

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CAREER PROFILE

Engineering Drafter

OVERVIEW

Engineering Drafters prepare technical drawings and plan used by production and construction workers. Their drawings provide visual guidelines; show the technical details of the products and structures; and specify dimensions, materials, and procedures. They fill in technical details using drawings, rough sketches, specifications, codes, and calculations previously made by engineers, surveyors, architects, or scientists.

FUTURE OUTLOOK

Employment of drafters is expected to grow for all occupations. Industrial growth and increasingly complex design problems associated with new products and manufacturing processes will increase the demand for drafting services. Opportunities should be best for individuals with at least 2 years of postsecondary training in a drafting program that provides strong technical skills, as well as considerable experience with CAD systems.

SALARY OPPORTUNITIES

	LOW	MEDIAN	HIGH
U.S.	\$27,490	\$43,00	\$67,650
Modesto	\$17,909	\$37,898	\$47,882

Sources:

U.S. Bureau of Labor Statistics <http://www.bls.gov>

Occupational Outlook Handbook <http://www.bls.gov/oco/>

California Labor Market Information Office <http://www.calmis.cahwnet.gov>