

SAN JACINTO COLLEGE ENGINEERING DESIGN GRAPHICS PROGRAM INFORMATION

Description

Engineering design graphics (EDG) is a technical field where engineering data is communicated through drawings and three-dimensional models. Drafters provide support to designers, architects and all types of engineers, preparing documentation and creating finished drawings for production in the engineering, construction or manufacturing industries. Drafters translate the ideas of engineers and architects from rough sketches, design layouts, specifications and calculations into working drawings, maps, plans, illustrations and 3D models which are used in producing marketable products. They prepare drawings and/ or 3D models using computer aided drafting, design and 3D modeling software in the fields of mechanical, petrochemical, architectural, civil, and structural.

Certifications

The EDG department provides two certificate levels and A.A.S. degree options. The Certificate of Technology is a fast-track award for those wishing to concentrate their studies in engineering design graphics and enter the job market as soon as possible. Dual credit student will need to complete their certificate in the summer following high school graduation.

Course Sequence

Junior Year	
Fall	Spring
DFTG 1305 Technical Drafting DFTG 1409 Basic Computer Aided Drafting	DFTG 1433 Mechanical Drafting DFTG 1445 Parametric Modeling & Design
Senior Year	
DFTG 2317 Descriptive Geometry DFTG 2440 Solid Modeling/Design	DFTG 2402 Machine Drafting DFTG 2406 Machine Design

Courses Remaining
DFTG 2435 Advanced Technologies in Mechanical Design & Drafting DFTG 2458 Advanced Machine Design DFTG 2386 Internship-Drafting * Design Technician OR DFTG 2338 Final Project

Potential Earnings

Average annual salary for a Mechanical Drafter in Texas is \$60,650, according to the Bureau of Labor Statistics.