

Certificate of Specialization: Mechanical Drafting

The drafting program is designed to prepare students for careers in industry as drafters or related occupations. Engineers require drafting skills, as do architects and designers. The techniques of drafting are used in many types of industries such as automotive, electronics, building construction, aeronautical/aerospace, machine design, advertising, illustrating, and engineering. The program provides students with entry-level skills and knowledge in the fields of computer mechanical drafting. Competencies include knowledge of orthographic projection and isometric sketching, AutoCAD generated drawings, current practices in construction technology, 2D and 3D drawings, drafting techniques such as clarity, line weight expression and accuracy to name a few.

Certificate Student Learning Outcome:

Students will be able to demonstrate proficiency in the core skills and knowledge required for a drafting position in the civil, electrical, electronic or mechanical engineering fields.

Program Requirements:

Units required: 9

		Units:
ENGR-110	Introduction to AutoCAD	3.0
ENGR-114	Solids Modeling for Mechanical Drafting	3.0

Plus three units from the following:

MFGT-121	CNC 1: Operation and Manual Programming	3.0
MFGT-131	CAD/CAM I	3.0