

PROGRAM OF STUDY

Mechanical Drafting Certificate of Specialization

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. Drafting technicians are in short supply, affording many employment opportunities for qualified individuals. 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, and architectural drafting. Competencies include knowledge of orthographic projection and isometric sketching, AutoCAD generated drawings, current practices in architectural drafting and construction technology, 2D and 3D drawings, drafting techniques such as clarity, line weight expression and accuracy to name a few. Upon completion of the program, students will be prepared for drafting positions in the following fields: civil, electrical, electronic, or mechanical.

Student Learning Outcome:

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
ENGR 110	Introduction to AutoCAD	3 - 0
ENGR 114	Solids Modeling for Mechanical Drafting	3 - 0

Plus three units from the following:

		Units
MFGT 121	CNC 1: Operation/Manual Programming	3 - 0
MFGT 131	CAD/CAM I	3 - 0

Total Units

9

PID 53