COMPUTER-AIDED DRAFTING (CAD)

MECHANICAL DESIGN CERTIFICATE

Program Code: E.CMD.CER

Certificate

Graduation requirement — 26–27 semester hours

The Computer-Aided Drafting: Mechanical Design certificate provides the student with an understanding of the machine design process and prepares the student for employment as a mechanical draft person working in a computer environment.

Program Note

MFX substitutions are accepted for MFT 113.
 MFT 113 = MFX 130 + MFX 131 + MFX 150 + MFX 151

Suggested Full-time Sequence

Total Semester Credit Hours

FALL	SPRING
1st Semester	2nd Semester
CAD 113	CAD 119
CAD 114	MAT 131
DRT 110	FNG 101 or FNG

DRT 119 ENG 101 or ENG 111 CTC 110 Technical elec

Required I	Program Courses (16 hours) Cr. Hrs.
CAD 113	Computer-Aided Machine Design I4
CAD 114	Introduction to AutoCAD (Computer-Aided Drafting)
CAD 119	Computer-Aided Machine Design II
DRT 119	Blueprint Reading and Technical Drawing3
CTC 110	Beginning Computers3
Electives (3–4 hours)	
Choose one course from the following:	
ELT 150	Introduction to Electricity and Electronics 3
MFT 113	Introduction to Hydraulics and Pneumatics 3
MFT 130	Basic Machine Processes
MFT 132	Intermediate Machine Processes3
MFT 137	Introduction to CNC Programming 4
Required General Education Courses (7 hours)	
ENG 101	Composition I
or ENG 111	Workplace Writing3
MAT 131	Applied Mathematics 4

26-27