

COMPUTER-AIDED DRAFTING (CAD)

COMPUTER-AIDED DRAFTING CERTIFICATE

Program Code: E.CAD.CER

Certificate

Graduation requirement — 17 semester hours

The Computer-Aided Drafting (CAD) Certificate prepares graduates for entry-level work as CAD technicians in industry.

Required Program Courses (17 hours)

CAD 113	Computer-Aided Machine Design I.....	4
CAD 117	Advanced AutoCAD — 3D Topics.....	3
CAD 122	Computer-Aided Machine Design II.....	4
CAD 124	Introduction to AutoCAD.....	3
DRT 119	Blueprint Reading and Technical Drawing.....	3
<i>Total Semester Credit Hours</i>		<u>17</u>

MECHANICAL DESIGN CERTIFICATE

Program Code: E.CMD.CER

Certificate

Graduation requirement — 33–34 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.

Suggested Full-time Sequence

<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>
CAD 113	CAD 122
CAD 124	CAD 117
DRT 119	CAD 121
ELT 111	ENG 101 or ENG 111
MAT 131	Technical elec

Required Program Courses (26–27 hours) Cr. Hrs.

CAD 113	Computer-Aided Machine Design I.....	4
CAD 117	Advanced AutoCAD—3D Topics.....	3
CAD 121	Materials for Industry.....	3
CAD 122	Computer-Aided Machine Design II.....	4
CAD 124	Introduction to AutoCAD (Computer-Aided Drafting).....	3
DRT 119	Blueprint Reading and Technical Drawing.....	3
ELT 111	Computer Applications for Technicians.....	3

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 121	Basic Machine Processes.....	3
MFT 122	Intermediate Machine Processes.....	3
MFT 127	Introduction to CNC Programming.....	4

Required General Education Courses (7 hours)

ENG 101	Composition I.....	3
<i>or</i>		
ENG 111	Workplace Writing.....	3
MAT 131	Applied Mathematics.....	4

Total Semester Credit Hours 33–34