

COMPUTER AIDED DRAFTING TECHNOLOGY

Diploma Program

I. RCTC General Education Requirements 10 credits

A. Minnesota Transfer Curriculum 3 cr

ENGL 1109, Introduction to Technical Communication, 3 cr

B. Other General Education Electives 7 cr

MATH 1015, Applied Technical Math, 3 cr

Four credits of any course other than CAD, 4 cr

Recommended:

ART 1130, Computer Graphics, 3 cr **OR**

DIGI 2230, Portfolio Development, 3 cr

(Note: Prerequisites: DIGI 2240. Requirements: Completion of ART 1120 or DIGI 1117 or consent of instructor).

II. Professional or Technical Credits 58 credits

CAD 1230	CAD Data Management	1 cr
CAD 1234	CAD I	3 cr
CAD 1235	CAD II	3 cr
CAD 1224	Engineering Drafting I	2 cr
CAD 1223	Technical Drafting I	2 cr
CAD 1225	Engineering Drafting II	2 cr
CAD 1229	Technical Drafting II	2 cr
CAD 1120	Welding Technology	2 cr
CAD 1123	Technical Illustration	2 cr
CAD 1145	Mfg Mat'l and Processes I	2 cr
CAD 1147	Mfg Mat'l and Processes II	4 cr
CAD 1150	CAD Data Communications	2 cr
CAD 1323	Basic Dimensioning	3 cr
CAD 2339	Three-Dimensional CAD	4 cr
CAD 2323	Advanced Dimensioning	3 cr
CAD 2324	Special Projects I	2 cr
CAD 2358	Machine Design	5 cr
CAD 2458	Product Design	5 cr
CAD 2423	Hyd/Pneumatic Drafting	2 cr
CAD 2424	Special Projects II	2 cr
CAD 2335	Working Drawings & Design	3 cr
CAD 2440	CAD Portfolio	2 cr

TOTAL 68 credits

PURPOSE: The CAD Technology major is designed to prepare students for a technical career using Computer Aided Drafting tools and techniques. CAD drafters turn concepts, ideas, and rough sketches into mechanical prints then “prototypes” or finished parts can be fabricated, designed or repaired. The curriculum primarily covers the mechanical disciplines of drafting and design. The CAD courses are taught in state-of-the-art facilities featuring the latest releases of **AutoCAD** and **SolidWorks**. Employment opportunities exist in large and small industries. Graduates can advance into positions such as designers, associate engineers, inspectors, supervisors, sales, and purchasing personnel.

Revised: 04/21/2004

Reviewed: 02/2008

For More Information,
Greg Laughland at 507-280-3172
greg.laughland@roch.edu
OR Pam Benson at 507-280-3137
 e-mail: pam.benson@roch.edu
 Or Web Page: <http://www.acd.roch.edu/cadtech>