

## COMPUTER AIDED DRAFTING DIPLOMA

**Purpose:** The one-year CAD Technology program is designed to prepare students for a technical career using A CAD software programs tools and techniques. The focus of the curriculum is CAD software with an emphasis on Mechanical drafting using Solidworks. Students use CAD software to draw, draw assemblies, make detailed prints for manufacturing and other CAD software applications. Students will learn industry standards and basic concepts of design. Classes are held on-line and can course work Excellent job opportunities are available for CAD graduates and advancement in the field is readily available.

**Award**

Computer Aided Drafting Diploma ..... 32 credits

*\* The course sequence for this program begins in fall only and is intended for full-time enrollment.*

### RECOMMENDED FULL-TIME COURSE SEQUENCE

Not all courses are scheduled every semester. See course schedule: <https://eservices.minnstate.edu/registration/search/basic.html?campusid=306>.

Semester 1		Semester 2	
CAD 1039 SolidWorks	4 cr	CAD 1040 Technical Illustration for Industry	2 cr
CAD 1149 Manufacturing Processes & Practices	2 cr	CAD 1120 Sheetmetal and Weldments	2 cr
CAD 1225 Dimensioning and Tolerancing	3 cr	CAD 2258 Product & Machine Design	4 cr
CAD 1226 Drafting for Industry	4 cr	CAD 2323 Advanced Dimensioning & Design	4 cr
CAD 2500 CAD Software & Standards	2 cr	CAD 2400 Reverse Engineering & Rapid Prototyping	3 cr
		CAD 2460 Surfacing & Advanced Modeling	2 cr
<b>Total Credits</b>	<b>15</b>	<b>Total Credits</b>	<b>17</b>

Course descriptions can be found at: <https://www.rctc.edu/academics/courses/course-descriptions>.

*\* The course sequence for this program is recommended for part time.*

### RECOMMENDED PART-TIME COURSE SEQUENCE

Not all courses are scheduled every semester. See course schedule: <https://eservices.minnstate.edu/registration/search/basic.html?campusid=306>.

Semester 1		Semester 2	
CAD 1039 Solidworks	4 cr	CAD 1040 Technical Illustration	2 cr
CAD 1149 Manufacturing Processes & Practices	2 cr	CAD 1120 Sheet Metal and Weldments	2 cr
CAD 1226 Drafting Practices for Industry	° "j >	CAD 2460 Surfacing and Advanced Modeling	2 cr
<b>Total</b>	<b>10</b>	<b>Total Credits</b>	<b>6</b>
<b>Credits</b>			
Semester 3		Semester 4	
CAD 1225 Dimensioning and Tolerancing	° "j >	CAD 2258 Product and Machine Design	4 cr
CAD 2500 CAD Software and Standards	° "j >	CAD 2400 Reverse Engineering and Rapid Prototype	3 cr
<b>Total Credits</b>	<b>5</b>	CAD 2323 Advanced Dimensioning and Design	4 cr
		<b>Total Credits</b>	<b>11</b>

Course descriptions can be found at: <https://www.rctc.edu/academics/courses/course-descriptions>.