RCTC PROGRAM PLAN

COMPUTER AIDED DRAFTING TECHNOLOGY
Diploma

I. PROFESSIONAL OR TECHNICAL CREDITS...32 CREDITS
   CAD 1039, SolidWorks, 4 cr
   CAD 1149, Manufacturing Processes and Practices, 2 cr
   CAD 1225, Dimensioning and Tolerancing, 3 cr
   CAD 1226, Drafting Practices for Industry, 4 cr
   CAD 2500, CAD Software and Standards 2 cr
   CAD 1040, Technical Illustration, 2 cr
   CAD 1120, Sheetmetal and Weldments, 2 cr
   CAD 2258, Product and Machine Design, 4 cr
   CAD 2323, Advanced Dimensioning and Design, 4 cr
   CAD 2400, Reverse Engineering and Rapid Prototyping, 3 cr
   CAD 2460, Surfacing and Advanced Modeling, 2 cr

   TOTAL ....32 CREDITS

PROGRAM OUTCOMES:
Upon completion of the Computer Aided Drafting Technology program at RCTC, students will achieve the following outcomes:
   - Demonstrate professional competence using CAD software (computer aided drafting).
   - Think critically and creatively.
   - Work productively and cooperatively with others.
   - Complete detailed quality work up to industry and ANSI standards.

ADDITIONAL NOTES:
PURPOSE: The one-year CAD technology program is designed to prepare students for a career using Computer Aided drafting tools and techniques. The focus of the curriculum is CAD software with an emphasis on SolidWorks and mechanical applications. Students follow drafting standards and learn basic concepts of design. Excellent employment opportunities exist, and graduates can advance into positions such as designers, inspectors, associate engineers, and CAD sales and software support.

Revised: 2/20/2024
Implementation: Fall 2024

ROCHESTER
COMMUNITY AND TECHNICAL COLLEGE

MINNESOTA STATE