RCTC PROGRAM PLAN

PRECISION MANUFACTURING TECHNOLOGY
Diploma

I. MINNESOTA TRANSFER CURRICULUM (MNTC)/
GENERAL EDUCATION REQUIREMENTS..............................................................3 CREDITS
ENGL 1109 (or higher), Introduction to Professional and Technical Communication, 3 cr

II. PROGRAM CORE REQUIREMENTS...........................................................................32 CREDITS
CAD 1230, CAD Data Management, 1 cr
CAD 1039, 3D CAD, 4 cr
CAD 2000, Introduction to CAM, 3 cr
PMT 1095, Blue Print Reading, 1 cr
PMT 1105, Shop Safety, Manual Mill and Lathe Theory, 1 cr
PMT 1115, Measuring, Inspection and Tool Setup, 1 cr
PMT 1255, Basics of CNC Machining and Turning, 1 cr
PMT 1300, Open Manufacturing Lab I, 8 cr
PMT 1705, CNC Coordinates and Offsets, 1 cr
PMT 1755, CNC Manual Operations, 1 cr
PMT 1825, Quality Assurance, 1 cr
PMT 1855, Introduction to GD & T, 1 cr
PMT 1900, Open Manufacturing Lab II, 6 cr
PMT 1950, Manufacturing Internship, 2 cr

TOTAL .................................................................................................................... 35 CREDITS

ADDITIONAL NOTES:
PURPOSE: The Precision Manufacturing Technology major trains an individual for hands on precision model creation. Students will be able to generate 2D models using SolidWorks and program the parts for manufacturing using CAM

PROGRAM ENTRANCE REQUIREMENTS:
PREREQUISITES: Students must have completed or be enrolled in MATH 1015 or tested into MATH 0098.

Revised: 03/10/2015
Implementation: Fall 2015