



**31-444-1 MACHINE TOOL OPERATION - CNC
2020-21 PROGRAM CURRICULUM CHECKLIST
NORTHWOOD TECHNICAL COLLEGE
RICE LAKE**



Name/ID _____

Date _____

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK	CREDITS	MANUFACTURING PRODUCTION TECHNICIAN TECHNICAL DIPLOMA (30-444-3)	CNC TECHNICIAN TECHNICAL DIPLOMA (30- 444-2)	MACHINE TOOL OPERATION - CNC TECHNICAL DIPLOMA (Financial Aid Eligible)
FIRST TERM						
16 Weeks						
32444300	CNC Turning – Basic Operation and Programming	4 hours per week	2 credits	Manufacturing Production Technician	CNC Technician	Machine Tool Operation - CNC
32444301	CNC Milling – Basic Operation and Programming	4 hours per week	2 credits	Manufacturing Production Technician	CNC Technician	Machine Tool Operation - CNC
32444302	Machining - Fundamentals and Drilling Processes	4 hours per week	2 credits	Manufacturing Production Technician	CNC Technician	Machine Tool Operation - CNC
32444303	Machining - Turning Processes	6 hours per week	3 credits		CNC Technician	Machine Tool Operation - CNC
32444304	Machining - Milling Processes	6 hours per week	3 credits		CNC Technician	Machine Tool Operation - CNC
32420361	Introduction to CAD/CAM	2 hours per week	1 credit	Manufacturing Production Technician	CNC Technician	Machine Tool Operation - CNC
32804325	Applied Technical Math 1	5 hours per week	3 credits	Manufacturing Production Technician	CNC Technician	Machine Tool Operation - CNC
32801361	Applied Communications <i>(CNC Technician Students ONLY, Machine Tool Operation-CNC students will complete in the second term.</i>	3 hours per week	2 credits		CNC Technician	
First 8 Weeks						
31420322	Print Reading for Machine Trades 1	4 hours per week	1 credit	Manufacturing Production Technician	CNC Technician	Machine Tool Operation - CNC
Second 8 Weeks						
31420323	Print Reading for Machine Trades 2 Prerequisite: 31420322 Print Reading for Machine Trades 1	4 hours per week	1 credit		CNC Technician	Machine Tool Operation - CNC
TERM TOTAL				11 Credits Manufacturing Production Technician	20 Credits CNC Technician	18 Credits Machine Tool Operation - CNC



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SECOND TERM						
32444305	Machining - Surface Grinding Processes	6 hours per week	3 credits			Machine Tool Operation - CNC
32444306	CNC Milling – Advanced Operation and Programming Prerequisite: 32444301 CNC Milling - Basic Operation and Programming	8 hours per week	4 credits			Machine Tool Operation - CNC
32444307	CNC Turning – Advanced Operation and Programming Prerequisite: 32444300 CNC Turning - Basic Operation and Programming	8 hours per week	4 credits			Machine Tool Operation - CNC
32420320	CAD/CAM Applications Prerequisite: 32420361 Introduction to CAD/CAM or consent of instructor	4 hours per week	2 credits			Machine Tool Operation - CNC
32801361	Applied Communications	3 hours per week	2 credits			Machine Tool Operation - CNC
32804334	Applied Technical Math 2 Prerequisite: 32804325 Applied Technical Math 1	4 hours per week	2 credits			Machine Tool Operation - CNC
	SECOND TERM TOTAL	33 hours per week	17 credits			17 Credits Machine Tool Operation - CNC
	PROGRAM REQUIREMENTS			11 Credits Manufacturing Production Technician	20 Credits CNC Technician	35 Credits Machine Tool Operation - CNC

Please be advised that low enrollment class sections may be cancelled. You will be contacted by Student Services with information on other class sections available in alternate formats.

GRADUATION REQUIREMENTS: Although your academic advisor can provide guidance, you are ultimately responsible for selecting courses that meet a program's graduation requirements. If you do not take courses in the recommended sequence above, it may delay your completion of graduation requirements. A program plan GPA of 2.0 in a 4.0 grade system is required to graduate.

EARN CREDIT FOR WHAT YOU ALREADY KNOW: Visit <https://www.NorthwoodTech.edu/admissions/preparing-for-college/credit-for-prior-learning> for more information

All prerequisite/corequisite courses must be completed with a grade point of 2.0 or better. Revised 10/02/019