



**32-420-5 MACHINE TOOLING TECHNICIS  
2022-23 PROGRAM CURRICULUM CHECKLIST  
NORTHWOOD TECHNICAL COLLEGE  
NEW RICHMOND**



Name/ID \_\_\_\_\_ Date \_\_\_\_\_

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK	CREDITS	ENTRY LEVEL MACHINING TECHNICAL DIPLOMA (31-420-6)	MULTI-AXIS CNC MILLING TECHNICAL DIPLOMA (30-420-3)	MACHINE TOOLING TECHNICIS TECHNICAL DIPLOMA (Financial Aid Eligible)
<b>FIRST TERM (Fall 2022)</b>						
<b>16 weeks</b>						
32420306	Machine Shop Theory 1	4 hours per week	2 credits	Entry Level Machining		Machine Tooling Technics
32804325	Applied Technical Math 1	6 hours per week	3 credits	Entry Level Machining		Machine Tooling Technics
<b>First 8 weeks</b>						
32420308	Applied Machine Tooling 1	16 hours per week	4 credits	Entry Level Machining		Machine Tooling Technics
32420321	Print Reading for Machine Trades	4 hours per week	1 credit	Entry Level Machining		Machine Tooling Technics
<b>Second 8 weeks</b>						
32420309	Applied Machine Tooling 2 Corequisites: 32420308 Applied Machine Tooling 1 and 32420321 Print Reading for Machine Trades	16 hours per week	4 credits	Entry Level Machining		Machine Tooling Technics
32420338	CAD Basics	4 hours per week	1 credit	Entry Level Machining		Machine Tooling Technics
<b>FIRST TERM TOTAL</b>				15 Credits Entry Level Machining		15 Credits Machine Tooling Technics

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

Revised 10/12/2021



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<b>SECOND TERM (Spring 2023)</b>						
<b>16 weeks</b>						
32420307	Machine Shop Theory 2 Prerequisite: 32420306 Machine Shop Theory 1	4 hours per week	2 credits	Entry Level Machining		Machine Tooling Technics
32420339	Mastercam Prerequisite: 32420338 CAD Basics	4 hours per week	2 credits	Entry Level Machining		Machine Tooling Technics
<b>First 8 weeks</b>						
32420336	Applied Machine Tooling 3 Prerequisites: 32420306 Machine Shop Theory 1 and 32420309 Applied Machine Tooling 2	16 hours per week	4 credits	Entry Level Machining		Machine Tooling Technics
<b>Second 8 weeks</b>						
32420337	Applied Machine Tooling 4 Corequisites: 32420307 Machine Shop Theory 2 and 32420336 Applied Machine Tooling 3	16 hours per week	4 credits	Entry Level Machining		Machine Tooling Technics
<b>SECOND TERM TOTAL</b>				12 Credits Entry Level Machining		12 Credits Machine Tooling Technics
<b>THIRD TERM (Fall 2023)</b>						
<b>16 weeks</b>						
32420311	Materials for Machine Tooling Technics	2 hours per week	1 credit		Multi-Axis CNC Milling	Machine Tooling Technics
32420334	CAD/CAM Demo Prerequisites: 32420321 Print Reading for Machine Trades and 32420339 Mastercam	4 hours per week	2 credits		Multi-Axis CNC Milling	Machine Tooling Technics
32420357	Advanced Machining Concepts	2 hours per week	1 credit		Multi-Axis CNC Milling	Machine Tooling Technics
32801361	Applied Communications	4 hours per week	2 credits		Multi-Axis CNC Milling	Machine Tooling Technics
<b>First 8 weeks</b>						
32420370	Machine Tooling Technics 1 Prerequisite: 32420337 Applied Machine Tooling 4	16 hours per week	4 credits		Multi-Axis CNC Milling	Machine Tooling Technics
<b>Second 8 weeks</b>						
32420371	Machine Tooling Technics 2 Corequisite: 32420370 Machine Tooling Technics 1	16 hours per week	4 credits		Multi-Axis CNC Milling	Machine Tooling Technics
<b>THIRD TERM TOTAL</b>					14 Credits Multi-Axis CNC Milling	14 Credits Machine Tooling Technics

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<b>FOURTH TERM (Spring 2024)</b>						
<b>1st 8 Weeks</b>						
32420343	Machine Tooling Technics 3 Prerequisites: 32420321 Print Reading for Machine Trades, 32420371 Machine Tooling Technics 2, and Corequisite: 32420391 Toolmaking Theory	12 hours per week	3 credits			Machine Tooling Technics
<b>2nd 8 Weeks</b>						
32420344	Machine Tooling Technics 4 Prerequisites: 32420321 Print Reading for Machine Trades, 32420371 Machine Tooling Technics 2, and Corequisite: 32420391 Toolmaking Theory, 32420343 Machine Tooling Technics 3	12 hours per week	3 credits			
32420391	Toolmaking Theory	4 hours per week	2 credits			Machine Tooling Technics
32801362	Advanced Communication Skills Prerequisite: 32801361 Applied Communications	4 hours per week	2 credits			Machine Tooling Technics
32804335	Advanced Technical Math Prerequisite: 32804325 Applied Technical Math 1	6 hours per week	3 credits			Machine Tooling Technics
<b>FOURTH TERM TOTAL</b>						<b>13 Credits</b> Machine Tooling Technics
<b>PROGRAM REQUIREMENTS</b>				<b>27 Credits</b> Entry Level Machining	<b>14 Credits</b> Multi-Axis CNC Milling	<b>54 Credits</b> Machine Tooling Technics

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

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