

Our graduates don't leave with just a four-year degree - they leave with the tools and know-how to supervise a manufacturing process, manage human and mechanical resources, budgetary essentials and product quality. Built for transfer students or those already in the workplace, this program is career-oriented and manufacturing focused. Learn the importance of all aspects of the industry including sustainability and compliance, lean six sigma, industrial simulation and project management.

## BENEFITS

- University of Minnesota degree
- 2+2 Transfer friendly
- Just 18-credits of liberal education.
- Low faculty to student ratio
- No out of state tuition; just one rate: \$441.50/credit
- Regionally accredited

## Build your career with highly desired skills that are in demand

- Officially accredited by the Accreditation Council for Business Schools & Programs (ACBSP)
- Industrial production managers, with a bachelor's degree, make on average \$103,150 per year according to Salary.com



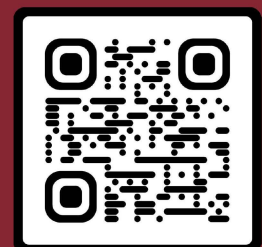
## Articulates with Northwood Tech's Machine Tool Technician Diploma

**56 NORTHWOOD TECH CREDITS**

**65 U OF M CROOKSTON CREDITS**

Supply Chain Management  
Lean Manufacturing  
Environmental Health and Safety  
Plant Management  
Production Management  
Project Management  
and more

TELL US ABOUT YOURSELF



## Questions? Contact for more information:

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Machine Tool Technician Instructor  
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## Northwood Technical College

Machine Tool Technician  
Diploma

### Occupational Specific Courses

<input type="checkbox"/> 32420312 CNC Programming – Turning	2
<input type="checkbox"/> 32420313 CNC Turning Operations	2
<input type="checkbox"/> 32420315 CNC Programming – Milling	2
<input type="checkbox"/> 32420316 CNC Milling Operations	2
<input type="checkbox"/> 32420318 Production Machining 1	4
<input type="checkbox"/> 32420320 CAD/CAM Applications	2
<input type="checkbox"/> 32420321 Print Reading for Machine Trades	1
<input type="checkbox"/> 32420325 Machine Tool Operation 1	4
<input type="checkbox"/> 32420326 Machine Tool Operation 2	4
<input type="checkbox"/> 32420327 Machine Tool Operation 3	4
<input type="checkbox"/> 32420328 Machine Tool Operation 4 (WBL)	4
<input type="checkbox"/> 32420329 Machine Tool Theory 1	2
<input type="checkbox"/> 32420330 Machine Tool Theory 2	4
<input type="checkbox"/> 32420377 Production Fixturing and Quality	1
<input type="checkbox"/> 32420378 Production Machining 2	3
<input type="checkbox"/> 32420364 Multiaxis Programming and Operations	2
<input type="checkbox"/> 32420365 CNC Fundamentals	2
<input type="checkbox"/> 32420375 Job Shop Machining 1	4
<input type="checkbox"/> 32420376 Job Shop Machining 2	4

### Occupational Supportive Courses

<input type="checkbox"/> 32801361 Applied Communications	2
<input type="checkbox"/> 32804325 Applied Technical Math 1	3

**Total** 56

## START YOUR APPLICATION

Scan the QR code with your mobile camera or search  
[www.umcrookston.edu/apply](http://www.umcrookston.edu/apply)



## University of Minnesota Crookston

Bachelor of Manufacturing Management  
100% Online

### Liberal Education Courses

<input type="checkbox"/> COMP 1011 Composition I	3
<input type="checkbox"/> COMP 1013 Composition II	3
<input type="checkbox"/> ECON 2101 Microeconomics	3
<input type="checkbox"/> MATH 1150 Introduction to Statistics	3
<input type="checkbox"/> COMM 1101 Public Speaking	3

### Program Core Courses

<input type="checkbox"/> ACCT3010 Managerial Accounting	3
<input type="checkbox"/> BM3000 Manufacturing Processes	3
<input type="checkbox"/> MB3006 Maintenance and Safety Management	3
<input type="checkbox"/> BM3025 Lean Manufacturing	3
<input type="checkbox"/> BM3034 Applied Quality	3
<input type="checkbox"/> BM3040 Industrial Simulation	3
<input type="checkbox"/> FIN3100 Managerial Finance	3
<input type="checkbox"/> GBUS1005 Orientation to Online Learning	1
<input type="checkbox"/> MGMT3200 Principles of Management	3
<input type="checkbox"/> MGMT3215 Organizational Behavior	3
<input type="checkbox"/> MGMT3250 Operations Management	3
<input type="checkbox"/> MGMT4200 Project Management	3
<input type="checkbox"/> ACCT2010 Financial Accounting OR ACCT2101 Principles of Accounting 1	3
<input type="checkbox"/> COMM3008 Business Writing OR WRIT3303 Writing in Your Profession	3

### Upper-Division Electives

<input type="checkbox"/> 3XXX OR 4XXXX Upper-division elective from any department	3
<input type="checkbox"/> 3XXX OR 4XXXX Upper-division elective from any department	3
<input type="checkbox"/> 3XXX OR 4XXX Select a course that is not listed in the Manufacturing Management Core: From ACCT, BM, ENTR, FIN, GBUS, ITM, MGMT, MKTG, SE	3

**Total** 65

**TOTAL**

**121**