This course provides students with continuing opportunities to work with computer numerical control (CNC) programming, building on what was learned in the previous programming course. Topics include lathe programming, program downloading, editing and advanced set-ups and operations. (Prerequisite: MTT 1220).

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Lecture	2/32
Lab	2/64

MTT 1220

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Use lathe "M" codes
Use lathe "G" codes

Demonstrate rigid tapping operation
Demonstrate float tapping

Choose upload programs
Choose download programs

Identify length offsets
Identify diameter offsets

Utilize advanced setup in lathe with tooling
Demonstrate work shift of program for multiple parts on fixture plate

Demonstrate file management
Create folders with organized labeling

Demonstrate 2-axis cutting
Describe 4-axis cutting

Explain lathe dry run
Explain simulate program

Use auto chamfer
Discuss different tooling to make chamfers

and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: www.southcentral.edu/disability

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.