

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Machine Tool Tech. III

Course Abbreviation and Number: MCT 2300

Credit Hours: 3

Course Type: Lecture/Lab

Course Description: Students will gain additional exposure in setting up and running CNC machine tools such as lathes, mills, and EDM equipment. Students will concentrate on the set-up and machining utilizing CNC programs of more complex parts using the CNC equipment.

Prerequisites: MCT 1300 and MAT 1220, or MAT 1590 or higher.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Explain and demonstrate proper and safe set-up of work pieces in the CNC equipment (lathes and mills).
 2. Explain and demonstrate proper CNC machine start-up and shut-down procedures.
 3. Explain axis orientation and MDI operation.
 4. Explain and demonstrate programming options and program editing.
 5. Explain the use of tool holders and tooling options.
 6. Explain the "first part" procedure.
 7. Perform independent projects of moderate difficulty on both lathes and mills.
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Topics Covered:

- Review Machine Tool Safety
 - Determination of Equipment for operations.
 - CNC Mill
 - CNC Lathes
 - Lab Outline and Projects
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Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)
 - [Accessibility Services](#)
Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
 - [Get Help: JCC & Community Resources](#)
 - [Emergency Closing Procedures](#)
 - Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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 - Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.
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Effective Date: Fall 2021