

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Machine Theory and Operations

Course Abbreviation and Number: MCT 1270

Credit Hours: 3

Course Type: Lecture/Lab

Course Description: Students will learn the function and operation of basic chip producing machine tools such as lathes, drill, milling machines, saws, and grinders.

Eligibility: MAT 1590 or Corequisite: MAT 0550.

Student Learning Outcomes:

After successful completion of this course, students will be able to:

1. Describe the basic operation of chip-producing machine tools.
 2. Identify procedures relating to inspection and measurement of work pieces.
 3. Explain machine operation safety procedures.
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Topics Covered:

- Safety
 - An Introduction to the Development of Machine Tools
 - Shop Math
 - Linear Measurement and Tolerance
 - Angular Measurement
 - Metal Cutting Saws
 - Drill Presses
 - Screw Threads
 - Engine Lathes
 - Milling Machines
 - Grinding Machines
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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 2023