

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: AutoCAD

Course Abbreviation and Number: MCT 1390

Credit Hours: 2

Course Type: Lecture

Course Description: Students will learn the concepts and fundamental principles of computer-aided drafting using AutoCAD software. Through both lecture and laboratory assignments, students will apply the commands and functions used in industry to create working mechanical drawings.

Prerequisite: MCT 1240.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Demonstrate the use of the basic insert geometry commands.
 2. Apply the geometry modification commands.
 3. Develop a title block and scaled drawings for plotting.
 4. Explain how to construct sections views.
 5. Explain how to construct auxiliary views.
 6. Explain how to develop assembly drawings with detailed part drawings.
 7. Apply proper dimensioning and tolerances according to the latest ANSI standard.
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Topics Covered:

- Review of Basic AutoCAD
 - Set up
 - Grid
 - Snap
 - Coordinate Systems
 - Basic geometry insertion
 - Drawing Creation
 - Geometry insertion
 - Geometry modification
 - Erase
 - Trim
 - Extend
 - Mirror
 - Move/Copy
 - Rotate
 - Array
 - Layers
 - Colors
 - Line types
 - Orthographic view construction
 - Dimensioning
 - Tolerance
 - Section views
 - Auxiliary views
 - Assembly drawings & sections in assembly drawings
 - Detail part drawings
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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