JAMESTOWN COMMUNITY COLLEGE

State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Engineering Drawing w/AutoCAD

Course Abbreviation and Number: MCT 1240 Credit Hours: 4 Course Type: Lecture

Course Description: Students will focus on engineering drawing fundamentals, incorporating both manual and computer-aided drafting. Topics include free-hand sketching, principles of applied geometry, orthographic projections, dimensioning, section views, pictorials, conventional drawing practices, standards, tolerancing, and an introduction to 2-D wire frame software such as AutoCAD. Students will create and modify CAD geometry, text, and dimensions.

No requisites.

Student Learning Outcomes:

Students who demonstrate understanding can:

- 1. Identify basic blueprint components.
- 2. Insert, modify, and manipulate basic geometry using AutoCAD.
- 3. Draw orthographic projections of three dimensional objects using proper conventions, alignment, dimensioning, and tolerancing both manually and with AutoCAD.

Topical Covered:

- Use of equipment
- Lettering
- Sketching & pictorial drawings
- Orthographic Projections
- Dimensioning
- Section views
- Auxiliary views
- Tolerancing
- AutoCAD intro to CAD and two-dimensional wire frame

- AutoCAD Coordinate systems & basic geometry insertion, snaps, grids, ortho/polar mode, and object snaps
- AutoCAD Geometry modification, erase, trim/extend, move, copy, rotate, mirror, offset, and array
- AutoCAD Layers, dimensioning
- AutoCAD Detailing

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:

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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.

Effective Date: Fall 2021