JAMESTOWN COMMUNITY COLLEGE
State University of New York

Master Course Syllabus

Course Title: Mathematics for Machinists

Course Abbreviation and Number: MAT 7001

Credit Hours: 2   **Division:** STEM   **Course Type:** Lecture

Course Description: Students will learn how to solve technology-related problems using algebra, geometry, and trigonometry. This course is designed to meet the specialized needs of students in the machinist training program and is not recommended for engineering or mathematics majors.

Prerequisite: MAT 0500 or higher or an Algebra Accuplacer score of 40+.

Course Attributes: E, L, N

(C=Career, E=Elective, H=Humanities, HON=Honors, L=Liberal Arts & Sciences, N=Mathematics/Sciences, S=Social Sciences, SR=Scientific Reasoning, VEDP=Values, Ethics & Diverse Perspectives)
4-letter codes represent SUNY General Education Courses, please see below to determine which SUNY General Education requirement(s) is met.

Student Learning Outcomes:
>   Students who demonstrate understanding can:
>   1. Apply algebraic techniques to solve problems typically seen in technology-related disciplines.
>   2. Solve problems involving geometric objects and properties.
>   3. Use trigonometry to solve problems in technology-related disciplines.

Additional Student Learning Outcomes that meet SUNY General Education Requirements:
>   Does this course meet a SUNY General Education requirement(s)? ☐ Yes   ☒ No

Topical Outline:
- Algebraic Operations
- Geometry
- Factoring
- Functions and graphs
- Trigonometric functions
- Trigonometric functions of any angle
- Additional topics in trigonometry

Signatures and Dates:

Discipline Director: *Christopher Reisch*   **Date:** 6.19.13

Assistant Dean: *Jean Schrader*   **Date:** 6.19.13

Academic Affairs: CR   **Date:** 6.19.13

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Effective Date: Summer 2013