

**JAMESTOWN COMMUNITY COLLEGE**  
**State University of New York**

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**INSTITUTIONAL COURSE SYLLABUS**

**Course Title:** Precalculus

**Course Abbreviation and Number:** MAT 1600

**Credit Hours:** 4

**Course Type:** Lecture

**Course Description:** Students will learn topics necessary for studying calculus and discrete mathematics. Algebra topics include rational and polynomial functions. Trigonometry topics include graphs, identities, half and double-angle formulas, and inverse trig functions. Other topics include exponential and logarithmic functions, and an introduction to limits. An approved graphing calculator is required.

**Prerequisite:** MAT1590 (or higher); or as determined by college placement.

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**General Education Requirements Met**

SUNY

Math

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**Student Learning Outcomes:**

Students who demonstrate understanding can:

1. Interpret and draw inferences from appropriate mathematical models such as formulas, graphs, and tables for polynomial, rational, exponential, logarithmic, and/or trigonometric functions. [SUNY Gen Ed -Mathematics]
  2. Represent mathematical information symbolically, visually, numerically, or verbally as appropriate for various kinds of functions. [SUNY Gen Ed – Mathematics]
  3. Employ quantitative methods such as operations on functions, application of trigonometric identities, and/or computation of limits to solve problems. [SUNY Gen Ed – Mathematics]
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**Topics Covered:**

- Equations, Inequalities, and Functions
  - Quadratic Functions and Models
  - Polynomial and Rational Functions
  - Limits and derivatives of functions
  - Exponential and Logarithmic Functions
  - Trigonometric Functions
  - Analytic Trigonometry
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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:** Spring 2026