

JAMESTOWN COMMUNITY COLLEGE
State University of New York

MASTER COURSE SYLLABUS

Course Title: College Algebra / Trigonometry

Course Abbreviation and Number: MAT 1590

Credit Hours: 4

Course Type: Lecture

Course Description: Students will learn algebra and trigonometry topics necessary to prepare them for the study of Precalculus. Topics include one-to-one functions and their inverses and graphs, polynomial and rational functions and their applications, radicals and exponents, complex numbers, and trigonometric functions, including graphs and basic identities. Problem-solving and applications are emphasized. An approved graphing calculator is required.

Prerequisite: MAT 0550 or MAT1210 or as determined by college placement.

General Education Requirements Met

SUNY

Math

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Analyze and solve problems involving the following concepts, with and without the use of a graphing calculator, and from any of three representations (numeric, algebraic and graphical). [SUNY Gen Ed – Mathematics]
 2. Interpret and draw inferences from mathematical models such as formulas, graphs, tables, and schematics. [SUNY Gen Ed – Mathematics]
 3. Represent mathematical information symbolically, visually, numerically and verbally. [SUNY Gen Ed – Mathematics]
 4. Employ quantitative methods such as, arithmetic, algebra, geometry, or statistics to solve problems. [SUNY Gen Ed – Mathematics]
 5. Estimate and check mathematical results for reasonableness. [SUNY Gen Ed – Mathematics]
 6. Recognize the limits of mathematical and statistical methods. [SUNY Gen Ed – Mathematics]
-

Topics Covered:

- Equations, Inequalities, and Functions
 - Linear Functions and Models
 - Quadratic Functions and Models
 - Additional Functions and Models
 - Polynomial and Rational Functions
 - Trigonometric Functions
 - Applications of Trigonometric Functions
-

Information for Students

- Expectations of Students
 - Civility Statement (<http://www.sunyjcc.edu/current-students/classroom-civility>)
 - Student Responsibility Statement (<http://www.sunyjcc.edu/academics/student-responsibility>)
 - Academic Integrity (<http://www.sunyjcc.edu/faculty-staff/academic-integrity>)
- Disability/Special Services
 - Any student who requires accommodations to complete the requirements and expectations of this course because of a disability should make their needs known to the Coordinator of Accessibility Services, 716.338.1251.
- Emergency Closing Procedures (<http://www.sunyjcc.edu/student-life/campus-safety/jcc-alert>)
- 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
-------	--------	-----	--------	-----	--------	-----	-----

- 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 2019