

JAMESTOWN COMMUNITY COLLEGE
State University of New York

MASTER COURSE SYLLABUS

Course Title: Elementary Algebra

Course Abbreviation and Number: MAT 0500

Credit Hours: 3 imputed

Course Type: Lecture

Course Description: Students will learn basic algebraic skills necessary for further study in mathematics and many other disciplines which involve quantitative problems. Topics include a review of arithmetic and signed numbers, linear equations and inequalities, graphing and Cartesian coordinates, basic rules of exponents, polynomial arithmetic, and unit analysis. Problem-solving and applications are emphasized.

Prerequisite: MAT 0300, MAT 0400, or placement.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Solve algebraic equations by implementing various algebraic techniques and properties.
 2. Apply algebraic and problem solving techniques to solve real world applications.
 3. Synthesize, compare, and integrate the numerical, algebraic, graphical, and verbal representations of linear functions.
 4. Use properties of exponents to simplify exponential expressions and perform arithmetic operations (addition, subtraction, and multiplication) on polynomials.
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Topics Covered:

- Variables, Real Numbers, and Mathematical Models
 - Linear Equations and Inequalities in One Variable
 - Linear Equations in Two Variables
 - Systems of Linear Equations
 - Exponents and Polynomials
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Information for Students

- Expectations of Students
 - Civility Statement (<http://www.sunyjc.edu/current-students/classroom-civility>)
 - Student Responsibility Statement (<http://www.sunyjc.edu/academics/student-responsibility>)
 - Academic Integrity (<http://www.sunyjc.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.sunyjc.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
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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 2019