JAMESTOWN COMMUNITY COLLEGE

State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Calculus/BUS/Social Science I

Course Abbreviation and Number: MAT 1630 Credit Hours: 3 Course Type: Lecture

Course Description: Students will study an introduction to differential calculus of functions of a single variable with applications to the behavioral, management, and social sciences. Topics include limits, continuity, derivatives, and applications of derivatives for algebraic, exponential, and natural logarithm functions.

Prerequisite: MAT 1530 or MAT 1600 or high school Precalculus or equivalent. A student cannot receive graduation credit for both MAT 1630 and MAT 1710.

Student Learning Outcomes:

Students who demonstrate understanding can:

- 1. Interpret and draw inferences from mathematical models such as formulas, graphs, tables, and schematics.
- 2. Represent mathematical information symbolically, visually, numerically and verbally.
- 3. Employ quantitative methods such as, arithmetic, algebra, geometry, or statistics to solve problems
- 4. Estimate and check mathematical results for reasonableness.
- 5. Recognize the limits of mathematical and statistical methods.

Topics Covered:

- Functions
- The Derivative
- Applications of the Derivative

- Techniques of Differentiation
- Logarithmic Functions

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.

Effective Date: Fall 2023