

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

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**MASTER COURSE SYLLABUS**

**Course Title:** Elementary Statistics

**Course Abbreviation and Number:** MAT 1540

**Credit Hours:** 3

**Course Type:** Lecture

**Course Description:** Students will investigate various topics in both descriptive and inferential statistics including measures of central tendency and spread, graphical analysis of data, probability, random sampling, correlation and regression, hypothesis testing and confidence intervals. Practical applications are emphasized throughout the course. A significant part of the course is taught in a laboratory setting using a software package such as Minitab.

**Prerequisite:** MAT 0550 or MAT1210 (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 mathematical models such as formulas, graphs, tables, and schematics. [SUNY Gen Ed – Mathematics]
  2. Represent mathematical information symbolically, visually, numerically and verbally. [SUNY Gen Ed – Mathematics]
  3. Employ quantitative methods such as, arithmetic, algebra, geometry, or statistics to solve problems. [SUNY Gen Ed – Mathematics]
  4. Estimate and check mathematical and statistical methods. [SUNY Gen Ed – Mathematics]
  5. Recognize the limits of mathematical and statistical methods. [SUNY Gen Ed – Mathematics]
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**Topics Covered:**

- Data Collection
  - Organizing and Summarizing Data
  - Descriptive Statistics
  - Probability
  - Probability Distributions
  - Normal Probability Distributions
  - Sampling Distributions
  - Confidence Intervals
  - Hypothesis Testing with One Sample
  - Correlation and Regression
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**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 |
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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