

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL 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.

General Education Requirements Met

SUNY
Math

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]
-

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
-

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 |
|-------|--------|-----|--------|-----|--------|-----|-----|

- 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 2021