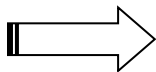# Jamestown Community College
State University of New York
Statistics (MAT 1540)   CRN#4666   2024 – 2025
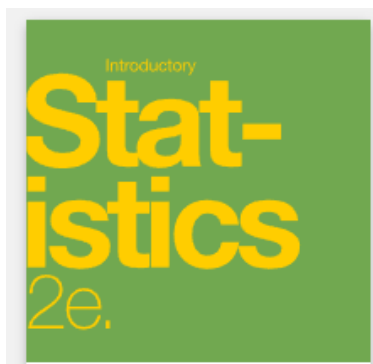
Room 129
Mrs. Haynes

CONTACT INFORMATION ⟹ chaynes@alcsny.org
(716) 375-6600 X2129

COURSE DESCRIPTION

The textbook for this course is found online using the website
http://openstax.org/subjects
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.

3 credit hours

Prerequisite: Algebra II Regents Score (and final course average) of 80+
or   ACCUPLACER QAS score of 255+
or   meets eligibility requirements for any higher-level math course

COURSE 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.

GRADING SCALE CALCULATIONS

Tests: 50%   Quizzes: 25%   Homework: 25%

GRADING SCALE (JCC equivalents)

A	(90 – 100)	C	(70 – 76)
B+	(87 – 89)	D+	(67 – 69)
B	(80 – 86)	D	(60 – 66)
C+	(77 – 79)	F	LESS THAN 60

TOPICS COVERED

Sampling and Data Collection
Organizing and Summarizing Data
Descriptive Statistics
     Stem-and-Leaf plots, Bar graphs, Line graphs, histograms, Box Plots
     Measures of central tendency, Skewed data, measures of spread of the data
Probability
     Independent events and mutually exclusive events, tree and Venn diagrams
Discrete and Random Variables
     Probability Distributions, standard deviation
Continuous Random Variables
Normal Distributions
The Central Limit Theorem
Confidence Intervals
Hypothesis Testing with One Sample
Correlation and Linear Regression

If time permits, any (or all) of the following topics may be introduced
binomial distribution, normal approximation to binomial distribution, distribution of sample proportion, confidence intervals for a proportion, hypothesis testing for a proportion, and two-sample tests.

Expectations of JCC students

Civility Statement: http://www.sunyjcc.edu/current-students/classroom-civility

Student Responsibility Statement: http://sunyjcc.edu/student-life/campus-life/student-responsibilities

Academic Integrity: http://www.sunyjcc.edu/current-students/academic-integrity

CLASSROOM POLICIES

1. Homework will be given every class. However, it is probable that the assignments will not be graded. Homework completion is necessary for practice of concepts and preparing for assessments. If an assignment is to be graded the students will be notified beforehand.
NO LATE HOMEWORK WILL BE ACCEPTED.

2. If a student is absent from school, he/she is still responsible for getting any missed notes or handouts.

3. If a student is absent from school, he/she may make up a missed quiz/test _ONLY_ if the absence was coded as **EXCUSED**. No makeup assessments will be given for unexcused absences.

4. Cell phone use is prohibited during class time.

5. There will be up to 10 exams given, up to 10 quizzes given, a midterm exam, and a final exam.

6. Occasionally extra credit will be available. This is completely at the teacher's discretion.

7. Daily required materials: book, pencil, pen, eraser, 3- ring binder and TInspire calculator.

   (TI-nspire graphing calculators are issued to each student just like a textbook. Please see the accompanying letter)

8. My free periods are: 5, 6, and 8. I can also be available for extra help after school. All you need to do is let me know when you'd like to stay.

Sign, detach along dotted line, and return

STUDENT FULL NAME: _____
(please print)

I have read and discussed with my child the information regarding JCC (MAT 1540) STATISTICS class.

_____   _____
parent signature   date