

MATH 210C: JUST-IN-TIME SUPPORT FOR STAT C1000

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Fall 2026
Units:	2.5
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	STAT C1000.
Degree & Credit Status:	Non-Degree-Applicable Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Students will demonstrate the ability to compute descriptive statistics, calculate confidence intervals, and carry out tests of hypotheses
- Students will develop a conceptual understanding of descriptive and inferential statistics
- Students will demonstrate an ability to solve problems in descriptive and inferential statistics
- Students will assess their own learning process and performance in STAT C1000

Description

A just-in-time approach to core prerequisite skills, competencies, and concepts needed in Statistics. Intended for students who are concurrently enrolled in STAT C1000 at Foothill College. Topics include a review of skills, including percents, rounding, order of operations, interpretation of graphs, solving linear equations, solving inequalities, and applying formulas.

Course Objectives

The student will be able to:

- Explore topics related to developing effective learning skills.
- Solve problems involving percents.
- Round numbers.
- Apply the order of operations.
- Analyze graphs.
- Solve equations.
- Solve inequalities.
- Apply formulas.
- Use technology, such as graphing calculators and/or computer software, to assist in solving problems involving any of the topics in (2) through (8) above.
- Discuss mathematical problems and write solutions in accurate mathematical language and notation.
- Interpret mathematical solutions.

Course Content

- Explore topics related to developing effective learning skills
 - Learn study skills
 - Organizational skills
 - Time management
 - Test preparation
 - Test-taking skills
 - Self-assess using performance criteria to judge and improve one's own work
 - Analyze and correct errors on one's exam
 - Self-assess one's understanding of specific mathematical concepts
 - Develop and execute a plan to deepen understanding
 - Identify, utilize, and evaluate the effectiveness of resources in improving one's own learning, such as study groups, computer resources, lab resources, and tutoring resources
- Solve problems involving percents
 - Convert from decimals to percents
 - Convert from percent to decimals
 - Convert from fractions to decimals
- Round numbers
 - Perform traditional rounding
 - Rounding up
 - Rounding down
- Apply the order of operations
 - Use PEM/DA/S
- Analyze graphs
 - Scale axes
 - Identify what is represented by the vertical and horizontal axes
 - Read a number line
- Solve equations
 - Solve linear equations
 - Solve quadratic equations
- Solve and interpret inequalities
 - Solve inequalities
 - Write inequalities using interval notation
 - Interpret inequalities and intervals in context
- Apply formulas
 - Recognize symbols
 - Substitute applicable number for symbol
- Use technology, such as graphing calculators and/or computer software, to assist in solving problems involving any of the topics in (2) through (8) above
 - Calculator/computer utilities for evaluating problems in statistics
- Discuss mathematical problems and write solutions in accurate mathematical language and notation
 - Application problems from other disciplines
 - Proper notation
- Interpret mathematical solutions
 - Explain the significance of solutions to application problems

Lab Content

Not applicable.

Special Facilities and/or Equipment

1. Access to graphing technology, such as a graphing calculator or graphing software
2. When taught online or hybrid:
 - a. Internet access
 - b. Course management system
 - c. Specific software related to the course

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Written homework
Quizzes and tests
Performance in STAT C1000

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lecture
Discussion
Cooperative learning exercises

Representative Text(s) and Other Materials

Navidi and Monk. Elementary Statistics. 2025.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

1. Problem sets
2. Exploratory activities and/or projects
3. Reading and/or writing assignments

Discipline(s)

Mathematics