NCBS 410C: JUST-IN-TIME SUPPORT FOR STAT C1000

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Fall 2026
Units:	0
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	STAT C1000.
Degree & Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Unlimited Repeatability

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:

1. Explore topics related to developing effective learning skills.
2. Solve problems involving percents.
3. Round numbers.
4. Apply the order of operations.
5. Analyze graphs.
6. Solve equations.
7. Solve inequalities.
8. Apply formulas.
9. 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.
10. Discuss mathematical problems and write solutions in accurate mathematical language and notation.
11. Interpret mathematical solutions.

Course Content

1. Explore topics related to developing effective learning skills
    a. Learn study skills
        i. Organizational skills
        ii. Time management
        iii. Test preparation
        iv. Test-taking skills
    b. Self-assess using performance criteria to judge and improve one's own work
        i. Analyze and correct errors on one's exam
        ii. Self-assess one's understanding of specific mathematical concepts
        iii. Develop and execute a plan to deepen understanding
    c. 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
2. Solve problems involving percents
    a. Convert from decimals to percents
    b. Convert from percent to decimals
    c. Convert from fractions to decimals
3. Round numbers
    a. Perform traditional rounding
    b. Rounding up
    c. Rounding down
4. Apply the order of operations
    a. Use PEM/DA/S
5. Analyze graphs
    a. Scale axes
    b. Identify what is represented by the vertical and horizontal axes
    c. Read a number line
6. Solve equations
    a. Solve linear equations
    b. Solve quadratic equations
7. Solve and interpret inequalities
    a. Solve inequalities
    b. Write inequalities using interval notation
    c. Interpret inequalities and intervals in context
8. Apply formulas
    a. Recognize symbols
    b. Substitute applicable number for symbol
9. 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
    a. Calculator/computer utilities for evaluating problems in statistics
10. Discuss mathematical problems and write solutions in accurate mathematical language and notation
    a. Application problems from other disciplines
    b. Proper notation
11. Interpret mathematical solutions
    a. 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

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