Sophia Learning

STAT1001: Introduction to Statistics (3 semester credits)

COURSE DESCRIPTION

Students in the Introduction to Statistics course gain mastery of the basic principles of statistics. Students will learn a variety of topics, including statistical principles, research methodologies, data analysis, and hypothesis testing. Students will demonstrate the application of these topics within statistics to everyday situations.

COURSE EFFECTIVE DATES: February 2019 - Present

PREREQUISITES: No prerequisites

LENGTH OF COURSE: This is a self-paced course. Students may use as much or as little time as needed to complete the course.

ACE CREDIT® RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary statistics (10/21).

GRADING: This is a pass/fail course. Students must complete 20 Challenges (formative assessments) and 6 Milestones (summative assessments) with an overall score of 70% or better.

LEARNING OUTCOMES

Upon completion of the course, the student will be able to:

1. Understand and identify key principles of statistical reasoning and statistical methods.
2. Apply concepts of data and data representation in a real world context.
3. Calculate variation and central tendency and recognize patterns in distributions.
4. Apply concepts of probability and risk in real life scenarios.
5. Determine correlation and causation and distinguish between them in context.
6. Apply concepts of hypothesis testing and utilize t-tests, z-tests, and ANOVA in real world situations.

OUTLINE OF MAJOR CONTENT AREAS