

Introduction to Probability and Statistics

MATH 14-301

Department of Mathematics, Liberty University

Contact Information

For more information, contact the instructor.

Course Description

This course introduces the concepts of probability and statistics, including applications, interpretation of statistics, and probability distributions. Topics include: probability, random variables, expectation, variance, normal distribution, binomial distribution, and Poisson distribution.

Prerequisites

Calculus I

Students should have completed the first semester of calculus (MATH 14-300) or the equivalent.

This course is designed to be completed in one semester. It is a required course for students in the Bachelor of Science in Mathematics program.

Rationale

This course is a required course for students in the Bachelor of Science in Mathematics program. It provides a foundation for the study of probability and statistics, which are essential for many careers. The course also provides a strong foundation for the study of advanced mathematics, including calculus and differential equations.

Measurable Learning Objectives

Students will be able to:

1. Calculate the probability of an event occurring in a given situation.

1. Calculate the probability of an event occurring in a given situation.
2. Calculate the expected value of a random variable.
3. Calculate the variance of a random variable.
4. Calculate the standard deviation of a random variable.
5. Calculate the probability of an event occurring in a given situation.
6. Calculate the probability of an event occurring in a given situation.
7. Calculate the probability of an event occurring in a given situation.

8. Calculate the probability of an event occurring in a given situation.

9. Calculate the probability of an event occurring in a given situation.

10. Calculate the probability of an event occurring in a given situation.

Math 201 Introduction To Probability And Statistics 3

Ensheng Dong



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