

40011 Introduction to Probability Theory and Applications (3)

Knowledge

Permutations and combinations, discrete and continuous distributions, and random variables.

Comprehension

Conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.

Application

The main and most important application is to solve many different problems related to the subject.

Analysis

N/A

Synthesis

Should develop combinatorial and analytic skills to solve problems in probability.

Evaluation

Should complete homeworks, pass midterm tests and a final exam.

Class Activities

To solve problems in class and discuss theorems.

Out of class Activities

To submit homework assignments.