Course Outline

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Course Title: Introduction to Probability and Statistics Course Code: STAT 270

Fall 2010

Credits: 3
Section: C100

Course Description:

This is one of the first courses in probability and mathematical statistics: Basic laws of probability, sample distributions, introduction to statistical applications.

The course consists of the following general topics:

1. Introduction to descriptive statistics
2. Concepts of probability and tools for calculating probability
3. Discrete distributions: Variables, expectations and Binomial and Poissons distributions
4. Continuous distributions: Normal, gamma, and exponential distributions, normal approximation to Binomial distribution, jointly distributed random variables, the central limit theorem
5. Inference: Single samples-estimation, hypothesis testing
6. Inference: Two samples-normal, large samples, and paired cases

Requisite:

Corequisite(s): MATH 152 or 155 or 158. Students wishing an intuitive appreciation of a broad range of statistical strategies may wish to take STAT 100 first Quantitative.

Textbook:
-Devore, Jay L.. PROBABLIITY AND STATISTICS FOR ENGINEERING AND THE SCIENCES. (7TH) Nelson (Brooks / Cole)

Course Material:
-Study Guide
Students must indicate Pickup or Mail when enrolling in the Student Information System (SIS), in order to receive the required course material listed above

Course Requirements:

Requirements Notes:

To pass the course, you must pass the final exam.

Please Note:

Students requiring accommodation as a result of a disability must contact the Centre for Students with Disabilities at 7787823112 or csd_office@sfu.ca.

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