

FALL SEMESTER 2006 COURSE OUTLINE
STAT 270-3 (STATISTICS & ACTUARIAL SCIENCE)
INTRODUCTION TO PROBABILITY AND STATISTICS

! "

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

This 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 Poisson distributions
4. Continuous distributions: normal, gamma, and exponential distributions, Normal approximation to Binomial distribution, Jointly distributed random variable, The central limit theorem
5. Inference: single samples-Estimation, hypothesis testing
6. Inference: Two samples-normal, large samples and paired cases

PREREQUISITE:

Computer Requirements for *WebCT*

WebCT

minimum computer requirements: 500 MHz processor, 128 MB RAM, 100 MB free hard disk space, 14.4 Kbps modem or higher, and Internet Explorer

Access to *WebCT* begins on the first day of the semester.

All students:

<<http://www.webct.sfu.ca>>

WebCT

SFU students: