Spring SEMESTER 2009 COURSE OUTLINE

STAT 270–3 (STATISTICS & ACTUARIAL SCIENCE)
INTRODUCTION TO PROBABILITY AND STATISTICS
C100

    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 variables, the central limit theorem
5. Inference: Single sample-estimation, hypothesis testing
6. Inference: Two samples-normal, large samples and paired cases

PREREQUISITE(S): 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.

TEXT(S):

Devore, J. (2008). *Probability and Statistics for Engineering and the Sciences* (7th ed.). *(Includes access code to online resources Minitab, SAS & SPSS, etc.).* Nelson (Brooks/Cole).

REQUIREMENTS:		
	Assignment 1	5%
	Assignment 2	5%
	Midterm exam	25%
	Assignment 3	5%
	Assignment 4	5%
	Final exam	55%

REQUIREMENTS NOTE: Note: To pass the course, you must pass the final exam.
Refer to exam schedule on the CODE web site www.sfu.ca/code.
Students requiring accommodations as a result of a disability, must contact the Centre for Students with Disabilities (778-782-3112 or csd_office@sfu.ca).

DELIVERY MODE: Print
WebCT
eLive
LON-CAPA

(To view computer requirements for this course, go to www.sfu.ca/code, click on "CODE Courses/Outlines," then department name to find the online course outline. Then click on the "computer requirements" link.)

MODE OF DELIVERY NOTE: LON CAPA (a web based course management system accessed through your browser) will be used for practice problems.

SUPPLEMENTARY FEES: Course materials and service fee $40.00
Deposit for additional materials $0.00

Note: Every distance course includes a CODE package containing assignment deadlines and other information. Please pick it up at the Centre or ask that it be mailed when registering on goSFU.

1300 West Mall Centre
Web: www.sfu.ca/code
Last updated: 10/9/2008

Phone: 778.782.3524
Toll Free in Canada: 1.800.663.1411
Fax: 778.782.4964

WebCT and *eLive* Computer Requirements

- This course requires active online participation in *WebCT* (a web-based course management system) and *Elluminate Live,* also called *eLive* (an audio-based online conferencing tool).
- Please refer to *eLive* Set-up and Help .
- On-campus computer facilities are available. If you are using your own computer, these are the **minimum computer requirements:**

Hardware

- PC with *Windows 2000, ME, NT, XP,* or *Vista* **OR** Mac with *OS X* or later
- 256 MB of RAM for Windows, 128 MB of RAM for OS X, 10.2, 10.3, 256 MB for OS X 10.4
- 56K baud modem or higher
- Sound card with speakers and microphone, or headset
- CD-ROM

Software and Other

- Internet connection and e-mail access
- Supported browsers and JVM for *WebCT*
- One of the following web browsers:

PC	Mac
Internet Explorer 6, 7	*Firefox 1.0*
Firefox 1.5, 2.0	*Safari 1.3*

For more information about supported Web browsers and Java Virtual Machine visit this site.

WebCT Access and Accounts

- **Access to *WebCT* begins on the first day of classes.**
- To access *WebCT* go to the *WebCT* site.
- **SFU students:** Use your SFU computing account ID and password to log into *WebCT*. Click here for information about how to get your SFU Computing ID.
- **TRU-OL students:** *WebCT* access details will be provided in your CODE course package.

Connecting to the Internet from Home

- You are responsible for setting up your connection through your own external Internet service provider (ISP) (e.g., Telus, Shaw, etc.).

General

- Prior computer knowledge is expected (i.e., ability to save files, install programs, and maintain your computer). Familiarity with the Internet, e-mail, and related applications is strongly recommended.
- Support is not available for general computer problems (e.g., operating system, hardware).

Need Help?

- General inquiries: CODE technical support (*WebCT* & *eLive*) or call 778-782-5575.
- *eLive* FAQs for students.
- *WebCT* FAQs for students.
- Help with your SFU computing account or call 778-782-3230, or visit AQ 3148 on the Burnaby campus.