

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

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

REQUIREMENTS Note: To pass the course, you must pass the final exam.

NOTE: Refer to exam schedule on the CODE web site <<http://www.sfu.ca/cde>>. 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
(see over for computer requirements)

MODE OF

DELIVERY NOTE: LON CAPA is a web based course management system that you access through your browser.

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.

Computer Requirements: *WebCT* and *eLive*

- This course requires active online participation in *WebCT* (a web-based course management system) and *Illuminate Live*, also called *eLive* (an audio-based online conferencing tool).
- Please refer to the “**eLive: Getting Started**” document in your course package for more information about using *eLive* in your course.
- On-campus computer facilities are available. If you are using your own computer, these are the **minimum computer requirements**:

Hardware

- ❑ PC with *Windows 98, 2000, ME, NT, XP, or Vista* **OR** Mac with *System 9x* 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 (please visit <http://toolkit.sfu.ca/webct/browser/browserList/>)
- ❑ One of the following web browsers:

<u>PC</u>	<u>Mac</u>
Internet Explorer 6, 7	Mozilla 1.7.x (OS X only)
Netscape 7.2	Firefox 1.0.x (OS X only)
Mozilla 1.7.x	Safari 1.2, 1.3, 2.x; and 2.x
Firefox 1.0.x, 2.0.x	for x86 Intel platform

WEBCT ACCESS AND ACCOUNTS

- **Access to *WebCT* begins on the first day of classes.**
- To access *WebCT*, go to **<<http://webct.sfu.ca>>**.
- **SFU students:** Use your SFU Computing ID and password to log into *WebCT*. For information about how to get your SFU Computing ID please go to **<<http://www.sfu.ca/acs/accounts/>>**.
- **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, either through SFU or your own external Internet service provider (ISP) (e.g., Telus, Shaw, etc.).
- For information on Internet service available through SFU, please consult the Academic Computing Services (ACS) website at **<<http://www.sfu.ca/acs/modems/index.htm>>**.
- The subsidized modem hours allotted to you (four hours of access per credit hour) may not be sufficient to complete the required course work.
- A voucher system has been implemented to allow you to pay for continued modem access at 604-677-6678 (after your subsidized access is used up). Vouchers may be purchased from campus bookstores in increments of \$20. At 60¢ per hour, each voucher is good for approximately 33 hours. Instructions are included with the voucher. For more information please go to **<<http://www.sfu.ca/acs/modems/index.htm>>**.

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?

- CODE Technical Support (*WebCT* & *eLive*) at **<help@firstclass.sfu.ca>**, or 778-782-5575.
- *eLive* FAQs for students at **<<http://www.illuminate.com/support/faqs>>**.
- *WebCT* FAQs for students at **<http://wiki.sfu.ca/webct/index.php/Student_FAQ>**.
- Help with your SFU computing account at **<help@sfu.ca>**, 778-782-3230, or visit AQ 3148.