

Fall SEMESTER 2007 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 (604-291-3112 or csdo@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
- ❑ 128 MB RAM
- ❑ 56K baud modem or higher
- ❑ Sound card with speakers and microphone, or headset
- ❑ CD-ROM

Software and Other

- ❑ Internet connection and e-mail access
- ❑ Latest version of Java (www.java.com)
- ❑ One of the following web browsers:

PC

Internet Explorer 6, 7
Netscape 7.2
AOL 9
Mozilla 1.7.x
Firefox 1.0, 1.5

Mac

Mozilla 1.7.x (OS X only)
Firefox 1.0.x (OS X only)
Safari 1.2, 1.3, 2.x; and 2.x
for x86 Intel platform

WEBCT ACCESS AND ACCOUNTS

- **Access to *WebCT* begins on the first day of classes.**
- **All students:** To access your online course, go to [<http://www.webct.sfu.ca>](http://www.webct.sfu.ca) and log in with your *WebCT* ID and password.
- **SFU students:** Use your SFU computing account ID and password to log into *WebCT*. If you don't have an SFU computing ID, get it online at [<http://my.sfu.ca>](http://my.sfu.ca).
- **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) web site at [<http://www.sfu.ca/acs/modems/index.htm>](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>](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>](mailto:help@firstclass.sfu.ca), or 778-782-5575.
- *eLive* FAQs for students at [<http://www.illuminate.com/support/faqs>](http://www.illuminate.com/support/faqs).
- *WebCT* FAQs for students at [<http://webct.sfu.ca>](http://webct.sfu.ca).
- Help with your SFU computing account at [<help@sfu.ca>](mailto:help@sfu.ca), 778-782-3230, or visit AQ 3148.