

**Summer 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).

<b>REQUIREMENTS:</b>	Assignment 1	5%
	Assignment 2	5%
	Midterm exam	25%
	Assignment 3	5%
	Assignment 4	5%
	Final exam	55%

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

**NOTE:** To review the exam schedule go to: [www.sfu.ca/code](http://www.sfu.ca/code).

Students requiring accommodation as a result of a disability, must contact the Centre for Students with Disabilities (778-782-3112 or [csd\\_office@sfu.ca](mailto:csd_office@sfu.ca)).

**DELIVERY MODE:** Print

WebCT

eLive

LON-CAPA

(To view the computer requirements for this course go to [www.sfu.ca/code](http://www.sfu.ca/code), click on "CODE Courses/Outlines," click on the department name, click on the course outline link, and then click on the "computer requirements" link.)

**MODE OF****DELIVERY**

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

**NOTE:**

Speakers and a microphone or a headset is required to use eLive.

**SUPPLEMENTARY** Course materials and service fee \$40.00

**FEES:** 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.

### WebCT, eLive, and LON-CAPA Computer Requirements

- This course requires active online participation in *WebCT* (a web-based course management system) *Illuminate Live*, also called *eLive* (an audio-based online conferencing tool), and *LON-CAPA* (an online learning management system).
- Please refer to [eLive Set-up and Help](#).
- Please refer to the “**STAT 270: Getting Started with LON-CAPA**” document in your course package for more information about using *LON-CAPA* 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, 1GB for Vista, 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

*Internet Explorer 6, 7*  
*Firefox 1.5, 2.0*

#### Mac

*Firefox 1.0*  
*Safari 1.3*

### 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.

### LON-CAPA Access and Accounts

- **Access to LON-CAPA begins on the first day of classes.** You can access *LON-CAPA* through the following SFU servers:
  - <http://lewis.chem.sfu.ca>
  - <http://nernst.chem.sfu.ca>
  - <http://newton.science.sfu.ca>
- **SFU students:** Use your SFU computing account ID and your SFU student number to log into *LON-CAPA*. If you don't have an SFU computing ID, [get it online](#).
- **TRU-OL students:** Your *LON-CAPA* ID and password is your TRU-OL student number.

### 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.
- For *LON-CAPA* technical problems or system failures, report to [Ray Batchelor](#), or use the "Contact Helpdesk" link from the log-in screen.
- [Help](#) with your SFU computing account or call 778-782-3230, or visit AQ 3148 on the Burnaby campus.