

**Summer SEMESTER 2008 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.). Thomson (Brooks/Cole).

<b>REQUIREMENTS:</b>	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 [www.sfu.ca/code](http://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](mailto:csd_office@sfu.ca)).

**DELIVERY MODE:** Print

WebCT

eLive

LON-CAPA

(To view computer requirements for this course, go to [www.sfu.ca/code](http://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.

<b>SUPPLEMENTARY</b>	Course materials and service fee	\$40.00
<b>FEES:</b>	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 and eLive Computer Requirements

- 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](#)
- One of the following web browsers:

#### PC

Internet Explorer 6, 7  
Netscape 7.2  
Mozilla 1.7.x  
Firefox 1.0.x, 2.0.x

#### 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.**
- 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.