SUMMER TERM 2010 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

REQUISITE(S):   Corequisite: MATH 152 or 155 or 158.
Students wishing an intuitive appreciation of a broadrange 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).

NOTE: Students purchasing a used textbook must ensure that the CD is present (with a functional password)

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.
To review the exam schedule go to: 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).

DELIVERY MODE: Print
WebCT
eLive
LON-CAPA

MODE OF DELIVERY NOTE: Assignment Submission Method: Print
LON CAPA (a web based course management system accessed through your browser) will be used for practice problems. Speakers and a microphone or a headset are required to use eLive.

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 Student Information System (SIS).

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

- This course requires active online participation in *WebCT* (a web-based course management system) *Elluminate 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	Mac
Internet Explorer 6, 7	*Firefox 1.0*
Firefox 1.5, 2.0	*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.