

University of Calgary  
Department of Mathematics and Statistics  
STAT 217 - L02 STATISTICAL METHOD II  
Winter 2008  
COURSE OUTLINE

<b>Instructor</b>	Xuwen Lu Office: MS 540 Phone: 220-6620 e-mail: lux@math.ucalgary.ca
<b>Office Hours</b>	Wednesdays 13:00-14:00, Fridays 13:00-14:00. or at other times by prior appointment.
<b>Text Book</b>	<i>Introduction to the Practice of Statistics (5th Edition)</i> , by David S. Moore and George P. McCabe Freeman (2006)
<b>Recommended Software</b>	MINITAB Version 14 or 15 for Windows
<b>Prerequisite</b>	Statistics 213 or consent of the Division
<b>Course Web Site</b>	<a href="http://www.math.ucalgary.ca/~lux">http://www.math.ucalgary.ca/~lux</a>
<b>UofC Blackboard Site</b>	<a href="https://blackboard.ucalgary.ca/webapps/login/">https://blackboard.ucalgary.ca/webapps/login/</a>

**Grading Scheme**

In determining the overall grade in the course, the following weights will be used. The **best four** of these marks will constitute the “quiz” component of the final course grade.

Quizzes	[Best 4 of 5]	40%
Mid-term Test		15%
Final Exam		45%

### Additional Course Information

**Assignments:** There will be assignments given periodically which all student will be expected to work on either individually, or with the assistance of your tutorial instructor. The assignments are not for credit, and are simply to assist you in your study of the course material. Assignments solutions will be posted on the Blackboard (Bb) web site.

**Continuous Labs:** Continuous labs are held every weekday in room MS 571. Check time schedules for available hours. During this time students may seek individual attention from the lab instructor.

**Tutorials:** Pre-assigned tutorial section will be used to write quizzes, discuss the assigned problems, and demonstrate the use of statistical software MINITAB. These tutorials are not mandatory, but your attendance is **strongly recommended**.

**Quizzes:** You will write each quiz in your assigned quiz section. It is of utmost important that you **check your registration and insure you write each quiz in your registered quiz section**. Students who fail to do so without prior consent from me, will not receive credit. Quizzes will be based on the assigned questions and will be constructed with the expectation that ALL PROBLEMS HAVE BEEN ATTEMPTED and are understood.

#### STAT 217 W08 L02 QUIZ SCHEDULE

Lab Section	Wednesday at 15:00 B07(MS515), B08(MS521)	Thursday at 11:00 B05(MS515), B06(MS521)
Quiz 1	January 30	January 31
Quiz 2	February 13	February 14
Midterm Exam	Monday, March 3rd in the lecture, 11:00-11:50.	
Quiz 3	March 12	March 13
Quiz 4	March 26	March 27
Quiz 5	April 9	April 10

**Aid Sheets:** Formula sheets **will not be permitted when writing quizzes**. In addition, students **cannot use programmable/graphing calculators** of any sort on quizzes and exams. A two-sided, 8.5" x 11", formula sheet is **allowed on the Midterm Exam and Final Exam**. **The formula sheet will exclude definitions, generic interpretations, and either completed in partial or in whole, questions or examples either appearing on assignments or done in class. It is as it states, just a sheet of formulas!**

**Missed Quizzes:** Missed quizzes and exams are extremely rare. Any student missing a quiz or exam for reasons beyond the student's control will have a final grade assessed by reweighing the quizzes in which the student has completed. If you are absent from a quiz you must submit valid medical certificates. To be consistent and fair to all, this will apply to all students in the course. **There will be no makeup quizzes or exams!**

**Midterm Exam:** The midterm exam will be written in the lecture. The duration of the exam will be 50 minutes. It is strongly recommended that you show up early. It is a closed book exam.

**Final Exam:** The final exam will be scheduled by the registrar.

**Final Grades :** A distribution of final grades will be described in more detail as the course progresses. It should also be stated that final grades are NON-NEGOTIABLE.

**Behaving:** Academic misconduct is a serious offence. Any student exhibiting behavior which is characterized as academic misconduct will be dealt with promptly and with great severity. See the recent University Calendar for more information.

**Deferred Final Exams:** Should extraneous circumstances warrant your application and subsequent completion of a deferred final exam in this course, you will be writing a final exam that will be made up by the Statistics 217 course coordinator. This may or may not be your 217 instructor.

### Tentative Course Syllabus

Week of	Content	Book section(s)
1st-14 Jan.	Review the one-sample $t$ test and the power of the $t$ test. Inference for the mean of a population.	7.1
2nd-21 Jan.	Comparing two means. The $F$ test for equality of spread.	7.2-7.3
3rd-28 Jan.	Review and inference for a single proportion.	8.1
<b>30, 31 Jan.</b>	<b>Quiz 1 on Wednesday (B07, B08) and Thursday (B05, B06)</b>	
4th-4 Feb.	Comparing two proportions.	8.2
5th-11 Feb.	Data analysis for two-way tables. Inference for two-way tables.	9.1-9.2
<b>13, 14 Feb.</b>	<b>Quiz 2 on Wednesday (B07, B08) and Thursday (B05, B06)</b>	
18-22 Feb.	<b>Reading week, no lectures.</b>	
6th-25 Feb.	Formulas and models for two-way tables. Goodness of Fit.	9.3-9.4
7th-3 March	Simple linear regression model.	10.1
<b>3 March</b>	<b>Midterm Exam on Monday in the lecture.</b>	
8th-10 March	The ANOVA $F$ test for regression.	10.2
<b>12, 13 March</b>	<b>Quiz 3 on Wednesday (B07, B08) and Thursday (B05, B06)</b>	
9th-17 March	Inference for multiple regression. A case study.	11.1-11.2
10th-24 March	Inference for one-way analysis of variance.	12.1
<b>26, 27 March</b>	<b>Quiz 4 on Wednesday (B07, B08) and Thursday (B05, B06)</b>	
11th-31 March	Comparing the means, multiple comparisons.	12.2
12th-7 April	The two-way ANOVA model. Main effects and interactions.	13.1-13.2
<b>9, 10 April</b>	<b>Quiz 5 on Wednesday (B07, B08) and Thursday (B05, B06)</b>	
13th-14 April	The Wilcoxon rank sum test. The Wilcoxon signed rank test. The Kruskal-Wallis H test for completely randomized designs.	15.1-15.3
<b>18 April</b>	<b>Winter Session Lectures End.</b>	