

**THE UNIVERSITY OF CALGARY
FACULTY OF SOCIAL SCIENCES
DEPARTMENT OF SOCIOLOGY**

**SOCIOLOGY 315-40: INTRODUCTION TO SOCIAL STATISTICS II
COURSE OUTLINE - Spring 2009 (June 8 – June 26)**

Instructor: Dr. Linda Henderson
Office: SS 903
Phone: 220-6501
Office Hours: Mon, Tues, Wed
11:00 am to 12:00 pm
or by appointment

Classroom: SS 541
Classtime: Mon, Tues, Wed & Thurs
8:00-11:00 am
Lab: M,T,W,R 1:00 to 4:00 pm
Location: SS 541/TriFaculty Lab
Note: lab fees for instructional
materials are \$15.00/student

Teaching Assistant: Ali Rezaei

VERY IMPORTANT NOTE: Lap top computers may only be used in this class with special permission of the instructor. Cell phones and all other electronic devices MUST be turned off and stowed during class. Class attendance is essential for success in this class.

COURSE DESCRIPTION

This course provides a continuation of the introduction to the basic principles and techniques of social statistics used in social scientific research. This is NOT a course which emphasizes mathematics, but one which focuses on the logic involved in selecting, applying and interpreting statistical tools for the kinds of data analyses indicated by specific research problems. This goal involves *thinking* about how statistics fits into the overall process of research design and when and why a certain technique is the most appropriate and/or useful.

TEXTS

1. Frankfort-Nachmias, Chava and Anna Leon-Guerrero. 2009. *Social Statistics for a Diverse Society 5th Edition*. Thousand Oaks, California: Pine Forge Press.
2. Allison, Paul D. 1999. *Multiple Regression: A Primer*. Thousand Oaks, California: Pine Forge Press.

Find out more about the U of C Students' Union at www.su.ucalgary.ca
Find out more about the U of C Career Services at www.ucalgary.ca/careers

Campus SAFEWALK - call 220-5333

COURSE SCHEDULE

SECTION 1: INTRODUCTION AND REVIEW

1. The BASICS *see* F-N & L-G - Chpts 1-9
 - descriptive and inferential statistics
 - review of descriptive statistics for one variable
 - review of descriptive statistics for two variables

SECTION 2: DESCRIPTIVE STATISTICS FOR THREE OR MORE VARIABLES

2. Nominal and Ordinal Variables *see* F-N & L-G - Chpt 6
 - multiple contingency tables
3. Interval/Ratio Variables *see* ALLISON
 - partial correlation
 - multiple regression
4. An Introduction to Path Analysis - An Application of Multiple Regression Techniques
5. A Few Other Descriptive Statistics Techniques

SECTION 3: INTRODUCTION TO INFERENTIAL STATISTICS

6. Inferential Statistics: A brief overview *see* F-N & L-G – Chpts 10-12
 - probability theory and sampling theory
 - the logic of null hypothesis testing

SECTION 4: INFERENTIAL STATISTICS FOR ONE SAMPLE

7. Estimating Parameters *see* F-N & L-G - Chpt 11
 - point and interval estimates
8. Inferences about Means and Proportions *see* F-N & L-G - Chpt 11

SECTION 5: INFERENTIAL STATISTICS FOR TWO OR MORE SAMPLES

9. Inferences about Means and Proportions *see* F-N & L-G - Chpt 12
10. ANOVA (Analysis of Variance) *see* F-N & L-G - Chpt 14

SECTION 6: INFERENTIAL STATISTICS FOR REGRESSION

11. Inferences about slopes *see* ALLISON
12. Inferences about r^2 and R^2

STUDENT EVALUATION

Test #1, Thursday, June 11, 2009	25%
Test #2, Thursday, June 18, 2009	25%
Lab Assignments	20%
Final Test, Friday, June 26, 2009	<u>30%</u>
total	100%

IMPORTANT NOTE: To obtain a passing grade in this course, the following requirements **MUST** be met:

1. All lab assignments must be handed in. (i.e., The lab assignments are MANDATORY.)
2. A passing grade on the final exam must be achieved.

University of Calgary regulations (as outlined in the University of Calgary Calendar) will apply in the case of plagiarism, missed exams or assignments. Calculators may be used for all tests.

The Freedom of Information and Protection of Privacy (FOIP) Legislation disallows the practice of having students retrieve assignments from a public place, e.g., outside the instructor's office, from the department office, etc. Term assignments must be returned to the students individually, during class, or during the instructor's office hours; if students are unable to pick up their assignments from the instructor, they may provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignments.

LETTER GRADE ASSIGNMENT

<u>Letter Grade</u>	<u>% Range</u>	<u>Letter Grade</u>	<u>% Range</u>
A	90 or higher	C	63-66
A-	85-89	C-	59-62
B+	80-84	D+	54-58
B	76-79	D	50-53
B-	72-75	F	49 or less
C+	67-71		

Students who achieve overall numerical grades of 95% or higher will have A+ recorded on their official transcripts. Please note that grades in this course are NOT negotiable.

IMPORTANT NOTE: Please see the next page for Department of Sociology Mandatory Information for Course Outlines

DEPARTMENT OF SOCIOLOGY MANDATORY INFORMATION FOR COURSE OUTLINES

Exam Policies: You must provide advance notice to the instructor if you are unable to take an exam. All requests for deferral of an examination due to health reasons must be accompanied by written documentation as outlined in the University Calendar and should be obtained while the student has the physical or emotional problem rather than after recovery. Deferred exams may be allowed in the following circumstances: illness, domestic affliction or religious conviction. If you have missed an exam for a legitimate reason, you will be able to write a “make up” exam as close to the original exam as possible. The date and location will be at the convenience of the Sociology Department. Travel arrangements and misreading of the syllabus are not valid reasons for requesting a deferred exam. Deferred exams will not be granted if it is determined that just cause is not shown by the student.

Ethics Research: Students are advised that any research with human subjects--including any interviewing (even with friends and family), opinion polling, or unobtrusive observation--must have the approval of the Departmental Ethics Committee. In completing course requirements, students must not undertake any human subjects research without discussing their plans with the instructor, to determine if ethics approval is required.

Academic Misconduct: cheating is regarded as a serious academic offense. Students are advised to consult the University Calendar, which presents a Statement of Intellectual Honesty and definitions and penalties associated with cheating, plagiarism, and other academic misconduct.

The Freedom of Information and Protection of Privacy (FOIP) legislation disallows the practice of having students retrieve assignments from a public place, e.g., outside an instructor’s office or the Department main office. Term assignments must be returned to students individually, during class, or during the instructor’s office hours; if a student is unable to pick up her/his assignment s/he may provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

Safewalk: The University of Calgary provides a “safe walk” service to any location on Campus, including the LRT, parking lots, bus zones, and campus housing. For Campus Security/Safewalk call 220-5333. Campus Security can also be contacted from any of the “Help” phones located around Campus.

Academic Accommodation

Students with a disability, who require academic accommodation, need to register with the Disability Resource Centre (MC 295, telephone 220-8237). Academic accommodation letters need to be provided to course instructors no later than fourteen (14) days after the first day of class. **It is a student’s responsibility to register with the Disability Resource Centre and to request academic accommodation, if required.**

Handing in Papers Outside of Class, Return of Final Papers and Release of Final Grades

1. When students are unable to submit papers at class, they should make arrangements to hand in their papers directly to the instructor or teaching assistant rather than at the Sociology Department main office.
2. Final papers will not be returned through the Sociology Department main office. The Freedom of Information and Protection of Privacy (FOIP) legislation disallows the practice of having students retrieve assignments from a public place, (i.e., outside an instructor’s office, the department office, etc.). Students who want their final papers returned by mail must attach a stamped, self-addressed envelope with the paper. Otherwise final papers will only be available for pick-up during the instructor’s office hours at the end of this term or the beginning of the next term.
3. Final grades are not posted by the Sociology department. They are only available online.