

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

**SOCIOLOGY 315-01: INTRODUCTION TO SOCIAL STATISTICS II  
COURSE OUTLINE - Winter 2011**

Instructor: Dr. Linda Henderson  
Office: SS 903  
Phone: 220-6502  
Office Hours:  
By appointment

Classroom: ST 125  
Classtime: Mon, Wed and Fri  
2:00-2:50 pm  
Lab: Thursdays 3:30 to 6:30 pm  
Location: KNB133/TriFaculty Lab  
Note: lab fees for instructional  
materials are \$15.00/student

Teaching Assistants: Kristen Desjarlais-DeKlerk, Michal Koffman

**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. Healey, Joseph F. and Steven G. Prus. 2010. *Statistics: A Tool for Social Research, First Canadian Edition*. Toronto: Nelson Education Ltd.
2. Allison, Paul D. 1999. *Multiple Regression: A Primer*. Thousand Oaks, California: Pine Forge Press.

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*Find out more about the U of C Students' Union at [www.su.ucalgary.ca](http://www.su.ucalgary.ca)  
Find out more about the U of C Career Services at [www.ucalgary.ca/careers](http://www.ucalgary.ca/careers)*

**Campus SAFEWALK - call 220-5333**

## COURSE SCHEDULE

### SECTION 1: INTRODUCTION AND REVIEW

1. The BASICS *see* Healey & Prus, Chpts 1-5  
and Chpts 12-15  
- 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* Healey & Prus - Chpt 16  
- multiple contingency tables
3. Interval/Ratio Variables *see* Healey & Prus - Chpt 17  
- partial correlation  
- multiple regression
4. An Introduction to Path Analysis - An Application of Multiple Regression Techniques

### SECTION 3: INTRODUCTION TO INFERENCE STATISTICS

5. Inferential Statistics: A brief overview *see* Healey & Prus - Chpt 6  
- probability theory and sampling theory  
- the logic of null hypothesis testing

### SECTION 4: INFERENCE STATISTICS FOR ONE SAMPLE

6. Estimating Parameters *see* Healey & Prus - Chpt 6  
and Chpt 7  
- point and interval estimates
7. Inferences about Means and Proportions *see* Healey & Prus - Chpt 8

### SECTION 5: INFERENCE STATISTICS FOR TWO OR MORE SAMPLES

8. Inferences about Means and Proportions *see* Healey & Prus - Chpt 9  
9. ANOVA (Analysis of Variance) *see* Healey & Prus - Chpt 10

### SECTION 6: INFERENCE STATISTICS FOR REGRESSION

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

## **STUDENT EVALUATION**

Test #1, Thursday, February 10, 2011 (in lab)	25%
Test #2, Thursday, March 17, 2011 (in lab)	25%
Lab Assignments	20%
Final Exam - Registrar Scheduled*	<u>30%</u>
total	100%

*\* Please note the final exam could be on any day from April 19-29, 2011 (except April 22, 2011, Good Friday).*

**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.

**OTHER VERY IMPORTANT INFORMATION, PLEASE READ CAREFULLY**

**Emergency Evacuation/Assembly Point.**

**In the case of fire or other emergency evacuation of this classroom (ST145) please proceed to:**

**Primary assembly point – Faculty of Arts Food Court**

**Secondary assembly point – ICT Food Court**

**Missed, Make-up and Deferred Exams and Term Work**

**If at all possible you must provide notice to the instructor if you are unable to take a test or pass in an assignment or essay on time. All requests for deferral of a course component 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. Deferrals will be allowed in the following circumstances: illness, domestic affliction or religious conviction. Travel arrangements and misreading of the syllabus are not valid reasons for requesting a deferral. Deferrals will not be granted if it is determined that just cause is not shown by the student.**

**If you have missed a test for a legitimate reason, the instructor can require you to write a “make up” test as close in time to the original test as possible or can choose to transfer the percentage weight to another course component. If the instructor schedules a “make up” test for you, its date and location will be at the convenience of the Sociology Department.**

**Please note that requests to defer a final examination or to defer term work past the end of a term go through the Undergraduate Programs Office (UPO) and must be processed by the deadlines that are established in the U of C Calendar. You can find the forms you need online:**

**Deferred Final Exam Application**

[http://www.ucalgary.ca/registrar/files/registrar/APP%20FOR%20DF%20EXAM\\_0.pdf](http://www.ucalgary.ca/registrar/files/registrar/APP%20FOR%20DF%20EXAM_0.pdf)

**Deferred Term Work Form**

<http://www.ucalgary.ca/registrar/files/registrar/defTW.pdf>

**You must submit these deferral forms to the Faculty of Arts Associate Dean (Students) through the UPO office: Undergraduate Programs Office, 4th Floor, MacEwan Student Centre. Only the Associate Dean approves requests for deferrals which extend beyond the end of a term. Instructors are not involved in such decisions. To make an appointment with the Associate Dean, phone (403) 220-8155.**

### **Ethics Research**

Students are advised that any research with human subjects—including 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 research without discussing their plans with the instructor, to determine if ethics approval is required.

### **Academic Misconduct**

Plagiarism, cheating and other academic misconduct are regarded as serious academic offences. 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)**

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. Written 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, phone 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.

### **Student Ombudman**

For student concerns please contact Robert Clegg, Student Ombudsman

Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca)

## Writing Across the Curriculum

**"In teaching writing... we are teaching a way of experiencing the world, a way of ordering and making sense of it." (James A. Berlin)**

**Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their University courses and, where appropriate, members of faculty can and should use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Centre in the Effective Writing Office can be utilized by all undergraduate and graduate students who feel they require further assistance.**

**"The difficulty is not to write, but to write what you mean; not to affect your reader but to affect him precisely as you wish." (R.L. Stevenson)**

### Handing in papers outside of class, return of final papers, and release of final grades:

**1. When students are unable to submit papers in class or tutorial, they should make arrangements to hand in their papers directly to the instructor or teaching assistant as appropriate. Papers will not be accepted in the main Sociology Department office. *Papers that are slid under the office door of the instructor or teaching assistants will NOT be accepted. Electronic submissions will NOT be accepted. Students will provide one paper copy for each lab assignment.***

**2. Final grades are not posted by the Sociology Department. They are available only online.**