



Department of Psychology
Psychology 411 (L02) – Design and Analysis in Psychological Research
Winter 2011 - Course Outline

Instructor:	Dr. C. R. Sears	Lecture Location:	ES 054
Phone:	403-220-2803	Lecture Days/Time:	TH 11:00-12:15
Email:	sears@ucalgary.ca	Lab Instructor:	Catherine Phillips
Office:	Admin 264	TA Email:	ciphilli@ucalgary.ca
Office Hours:	By Appointment	Lab Days/Time:	M 1:00-3:00 / W 5:00-7:00

Course Description and Goals

This course is for students who have completed Psychology 312 (Experimental Design and Quantitative Methods in Psychology). The assumption is that you did well in that course and wish to pursue more advanced studies in research methodology and statistical analysis.

This course is an excellent preparation for introductory graduate-level statistics and methodology courses in psychology. You will learn how to analyze and interpret a wide variety of experimental designs. You will also learn how to use multiple regression procedures to analyze data from experimental and non-experimental studies. You will use SPSS for Windows to perform statistical analyses, and the lectures will rely extensively on the output files from this software.

Prerequisites

Psychology 205 – Principles of Psychology

Psychology 312 – Experimental Design and Quantitative Methods for Psychology

Required Text

SPSS for Intermediate Statistics: Use and Interpretation (3rd Edition), Psychology Press (Available in the Bookstore)

Calculators

You will need a calculator with statistical functions. The calculator used in Psychology 312 will suffice.

Evaluation

There will be one mid-term exam (February 17, scheduled for 75 minutes; 30% of final grade) and a take-home final examination (handed out in class on April 7, due April 21; 30% of final grade). The mid-term exam will consist of short answer questions. Both exams will test for material covered in the lectures and in the text.

The lab component of the course is worth 40% of your final grade. The lab component requires you to attend each lab and to complete six assignments, each worth 6.6%. (See the Lab Outline for the list of assignments and due dates; lab assignments will be handed out during the labs and will be posted on Blackboard). Students must achieve a passing grade on both the class work and the lab component to pass this course. Lab assignments are to be handed in to the TA at the beginning of the lab on their due date. To be fair to students who submit their assignments on time, late assignments will receive a 5% penalty per day, including weekends. Late assignments must be emailed to ciphilli@ucalgary.ca as a PDF file or a Word file.

The final exam is due April 21, no later than 11:59 pm. Your final exam can be emailed to sears@ucalgary.ca as a PDF file or a Word file. To be fair to students who submit their exam on time, exams received after this deadline will be considered late and will receive a 10% penalty per day, including weekends. Given the wide availability and access to email, any technical issues you experience (e.g., failure of your home internet connection) will not be considered when calculating a late penalty; only the day and time your exam arrives at sears@ucalgary.ca are relevant to that calculation.

Grading Scale

A+	96-100%	B+	80-84%	C+	67-71%	D+	54-58%
A	90-95%	B	76-79%	C	63-66%	D	50-53%
A-	85-89%	B-	72-75%	C-	59-62%	F	0-49%

As stated in the University Calendar, it is at the instructor's discretion to round off either upward or downward to determine a final grade when the average of term work and final examinations is between two letter grades. To determine final letter grades, final percentage grades will be rounded up or down to the nearest whole percentage (e.g., 89.5% will be rounded up to 90% = A, and 89.4% will be rounded down to 89% = A-).

Tentative Lecture Schedule

TOPIC

Review of Analysis of Variance, Multiple Comparisons
 Factorial Analysis of Variance (Independent Groups)
 Factorial Analysis of Variance (Repeated Measures)
 Mixed Factorial Designs

Midterm Exam

Analysis of Covariance
 Regression and Multiple Regression

Take Home Final Exam

WHAT YOU NEED TO STUDY

Lectures; Chapters 1 and 2
 Chapter 8
 Chapter 9
 Chapter 9
 February 17
 Chapter 8
 Chapter 6
 Due April 21

Reappraisal of Grades

A student who feels that a piece of graded term work (e.g., term paper, essay, test) has been unfairly graded, may have the work re-graded as follows. The student shall discuss the work with the instructor within 15 days of being notified about the mark or of the item's return to the class. If not satisfied, the student shall immediately take the matter to the Head of the department offering the course, who will arrange for a reassessment of the work within the next 15 days. The reappraisal of term work may cause the grade to be raised, lowered, or to remain the same. If the student is not satisfied with the decision and wishes to appeal, the

student shall address a letter of appeal to the Dean of the faculty offering the course within 15 days of the unfavourable decision. In the letter, the student must clearly and fully state the decision being appealed, the grounds for appeal, and the remedies being sought, along with any special circumstances that warrant an appeal of the reappraisal. The student should include as much written documentation as possible.

Plagiarism and Other Academic Misconduct

Intellectual honesty is the cornerstone of the development and acquisition of knowledge and requires that the contribution of others be acknowledged. Consequently, plagiarism or cheating on any assignment is regarded as an extremely serious academic offense. Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Students should examine sections of the University Calendar that present a Statement of Intellectual honesty and definitions and penalties associated with Plagiarism/Cheating/Other Academic Misconduct.

Academic Accommodation

It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 403-220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than 14 days after the start of this course.

Absence From A Test/Exam

Makeup tests/exams are NOT an option without an official University medical excuse (see the University Calendar). A completed Physician/Counselor Statement will be required to confirm absence from a test/exam for health reasons; the student will be required to pay any cost associated with this Statement. Students who miss a test/exam have 48 hours to contact the instructor and to schedule a makeup test/exam. Students who do not schedule a makeup test/exam with the instructor within this 48-hour period forfeit the right to a makeup test/exam. At the instructor's discretion, a makeup test/exam may differ significantly (in form and/or content) from a regularly scheduled test/exam. Except in extenuating circumstances (documented by an official University medical excuse), a makeup test/exam must be written within 2 weeks of the missed test/exam.

Freedom of Information and Protection of Privacy (FOIP) Act

The FOIP legislation disallows the practice of having student's retrieve tests and assignments from a public place. Therefore, tests and assignments may be returned to students during class/lab, or during office hours, or via the Department Office (Admin 275), or will be made available only for viewing during exam review sessions scheduled by the Department. Tests and assignments will be shredded after one year. Instructors should take care to not link students' names with their grades, UCIDs, or other FOIP-sensitive information.

Course Credits for Research Participation (Max 2% of final grade)

Students in most psychology courses are eligible to participate in Departmentally approved

research and earn credits toward their final grades. **A maximum of two credits (2%) per course, including this course, may be applied to the student's final grade. Students earn 0.5% (0.5 credits) for each full 30 minutes of participation.** The demand for timeslots may exceed the supply in a given term. Thus, students are not guaranteed that there will be enough studies available to them to meet their credit requirements. Students should seek studies early in the term and should frequently check for open timeslots. Students can create an account and participate in Departmentally approved research studies at <http://ucalgary.sona-systems.com>. The last day to participate in studies and to assign or reassign earned credits to courses is **April 14th, 2011**

Evacuation Assembly Point

In case of an emergency evacuation during class, students must gather at the designated assembly point nearest to the classroom. The list of assembly points is found at <http://www.ucalgary.ca/emergencyplan/assemblypoints>. Please check this website and note the nearest assembly point for this course.

Student Organizations

Psychology students may wish to join the Psychology Undergraduate Students' Association (PSYCHS). They are located in Administration 170 and may be contacted at 403-220-5567.

Student Union VP Academic: Phone: 403-220-3911 suypaca@ucalgary.ca

Student Union Faculty Rep.: Phone: 403-220-3913 socialscirep@su.ucalgary.ca

Student Ombudsman's Office

The Office of the Student Ombuds provides independent, impartial and confidential support for students who require assistance and advice in addressing issues and concerns related to their academic careers. The office can be reached at 403-220-6420 or ombuds@ucalgary.ca (<http://www.su.ucalgary.ca/services/student-services/student-rights.html>).

Safewalk

The safewalk program provides volunteers to walk students safely to their destination anywhere on campus. This service is free and available 24 hrs/day, 365 days a year. Call 403-220-5333.

Important Dates

The last day to drop this course with no "W" notation and **still receive a tuition fee refund is January 21st, 2011**. Last day for registration/change of registration is **January 24th, 2011**. The last day to withdraw from this course is **April 15th, 2011**