



Psychology 411 (L01)

Design and Analysis in Psychological Research

Instructor:	Dr. Susan D. Boon	Lecture Location:	A253
Phone:	403-220-5564	Lecture Days/Time:	T/R 11:00 – 12:15
Email:	sdboon@ucalgary.ca	Lab location:	SS018
		Lab	01 M 9:00 – 10:50 02 W 11:00 – 12:50
Office:	A231B	Teaching Assistant:	K. E. Sheppard
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Course Description and Goals

Experimental design problems and techniques for analysis of psychological data.

Required Text

No required text. **Set of required handouts available for purchase from the Psychology Undergraduate Students' Association (PSYCHS) in Admin. 170.** Additional, supplementary (optional) readings are available for photocopying (at your cost) from PSYCHS if you feel a need to have reference materials. An up-to-date PSYCHS membership will be required to borrow these readings for copying purposes.

Evaluation

Course Component	Weighting	Date
Midterm exam #1	25%	February 14, 2012
Midterm exam #2	25%	March 15, 2012
Final exam	25%	To be scheduled by registrar
Laboratory	25% (5% each)	Five equally-weighted written assignments due throughout term. See Lab Schedule below for descriptions.

Exams

Exams will consist of both **short answer** and **computation questions**, with the considerable emphasis on short answer questions. The first midterm (February 14) will cover the material up to and including the end of simultaneous multiple regression. The second midterm (March 15) will cover hierarchical regression, ANOVA, and planned comparisons. The final exam (to be scheduled by the registrar) will be **cumulative** and therefore cover **all** course material. **NOTE:** You will not be graded on the quality of your writing. However, if I can't understand your answer because of awkward language, grammatical errors, and so forth, my inability to understand your answer will necessarily affect your grade in a negative fashion.

The use of calculators is permitted for computational questions on the exams. However, you will be graded on your work. Accordingly, **if you fail to show your work, you will receive a 0 for the question (i.e., for the computation component of the question) even if the final answer is correct.**

The use of computers is not permitted for exams in this course. Exam answers must be written in the exam booklets provided during the exam.

No study aids will be permitted during exams for this course, apart from those that may be provided by the instructor during the exam.

Laboratory

Students must achieve a passing grade on both the class and lab components to pass this course. Lab assignments must be handed in at the beginning of the lab on which the due date falls (see the Lab Schedule below). Under exceptional circumstances (e.g., illness), other arrangements may be made at the discretion of the Teaching Assistant. Late lab assignments will not be accepted, except under exceptional circumstances and at the discretion of the Teaching Assistant with the approval of the Instructor. Lab assignments submitted electronically will not be accepted.

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 but 89.4% will be rounded down to 89% = A-).

Tentative Lecture Schedule

Date	Topic	Supplemental Reading (optional)
Jan 10 - 12	Lectures begin. Introduction and overview. Review of GLM basics	Ch. 2 Pedhazur
Jan 17 - 19	Introduction to regression analysis	Ch. 3 Pedhazur
Jan 20	Last day to drop a course with tuition refund.	
Jan 23	Last day for registration/change of registration.	
Jan 24 - 26	Regression analysis cont'd	
Jan 31 – Feb 2	Regression analysis cont'd	
Feb 7 - 9	Regression analysis cont'd	
Feb 14	Midterm exam #1	to end of simultaneous multiple regression
Feb 16	Regression analysis cont'd	
Feb 21 - 23	Reading days. No lecture.	
Feb 28 – Mar 1	ANOVA	
Mar 6 - 8	ANOVA cont'd	
Mar 13	Planned comparisons	
Mar 15	Midterm exam #2	hierarchical regression to end of planned comparisons
Mar 20 - 22	Mixed model regression	
Mar 27 - 29	Mixed model regression cont'd ANCOVA	Ch. 15 Pedhazur
Apr 3 - 5	Multivariate Analysis of Variance (MANOVA)	Ch. 15 Diekhoff
Apr 10 – 12	Discriminant Function Analysis Exam review.	Ch. 14 Diekhoff
Apr 13	Lecture ends. Last day to withdraw	

Tentative Lab Schedule

Week of	Topic	Assignments and Due Dates
Jan 10 - 12	No labs this week Review of GLM basics	
Jan 17 - 19	Lab orientation	
Jan 24 - 26	Linear regression	Receive Assignment 1 (linear regression)
Jan 31 – Feb 2	Multiple Regression	Receive Assignment 2 (multiple regression) Assignment 1 due
Feb 7 - 9	Multiple regression cont'd; Exam review, time permitting	Assignment 2 due
Feb 14 - 16	No labs. Exam week (midterm #1).	
Feb 21 - 23	Reading week. No labs.	
Feb 28 – Mar 1	ANOVA and planned comparisons	Receive Assignment 3 (ANOVA)
Mar 6 - 8	ANOVA cont'd; exam review time permitting	Assignment 3 due
Mar 13 - 15	No labs. Exam week (midterm #2).	
Mar 20 - 22	Mixed model regression	Receive Assignment 4 (MMR)
Mar 27 - 29	Mixed model regression cont'd	
Apr 3 - 5	Multivariate Analysis of Variance (MANOVA)	Receive Assignment 5 (MANOVA) Assignment 4 due
Apr 10 – 12	Discriminant Function Analysis Exam review, time permitting	Assignment 5 due

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

Students who miss a term test due to a valid and documented official University reason (illness, domestic affliction, or religious conviction) have 48 hours to contact AND schedule a makeup test with the instructor. The onus is on the student to have a makeup test approved and scheduled within 48 hours, or the makeup test option is forfeited. The same process applies to missed makeup tests. At the instructor's discretion, the makeup test may differ significantly in form and/or content from the missed test. However, the makeup test cannot differ in weight (% of final grade) from the missed test. Except in extenuating circumstances (a documented official University medical excuse), a makeup test must be written within 2 weeks of the missed test. Absence from a final exam, and deferral of a final exam, are handled by Enrolment Services (see http://www.ucalgary.ca/registrar/deferred_final). Students absent from a final exam must notify the instructor within 48 hours and must then apply for an official deferred final exam no later than the deadline indicated in the Examinations Schedule.

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.

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 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 and **still receive a tuition fee refund** is **Jan 20, 2012**. Last day for registration/change of registration is **Jan 23, 2012**. The last day to withdraw from this course is **Apr 13, 2012**.