

DEPARTMENT OF PSYCHOLOGY Faculty of Arts

PSYC 411	Design and Analys	is in Psychological Researd	ch Fall 2013
Instructor: Phone:	Dr. K. Edwin Sheppard 403-220-8970	Lecture Location: Lecture Days/Time:	SS 012 M/W/F: 8:00-8:50
Email:	kesheppa@ucalgary.ca	Lab Days/Time	W: 1500:1650
Office:	A 157A	Teaching Assistant	M: 15:00-16:50 Jocelyn Wiltshire
Office Hours:	ТВА	TA Office / Email:	David Mayers TBA
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Course Description and Goals

Experimental design problems and techniques for analysis of psychological data.

Prerequisites

PSYC 200 - Principles of Psychology I

PSYC 201 - Principles of Psychology II

PSYC 312 – Experimental Design and Quantitative Methods for Psychology

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 own 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%	Wednesday October 6, 2013
Midterm Exam #2	25%	Friday November 8, 2013
Final Exam	25%	To be scheduled by registrar
Laboratory	25% (5% each)	Five equally-weighted written assignments due throughout the term. See lab schedule below for descriptions.

Exams (25% each):

Exams will consist of both short answer and computation questions, with the considerable emphasis on short answer questions. The first midterm (**Wed Oct.6, 2013**) will cover the material up to and including the end of

simultaneous multiple regression. The second midterm (**Fri Nov.8, 2013**) 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.

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 (25%):

Students must achieve a passing grade in both the class and the 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 conditions (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.

Department of Psychology Grade Distribution Policy

The distribution of grades in Psychology courses (the percentage of A grades, B grades, etc.) will be similar to the distribution of grades in other courses in the Faculty of Arts. The Department monitors the grade distributions of 200-, 300-, and 400-level courses in the Faculty to ensure that the grade distributions in Psychology courses are comparable. Based on these reviews, students can expect that 1) up to 30% of grades in 200- and 300-level psychology courses will be "A" grades (A+, A, and A-), and 2) up to 40% of grades 400-level psychology courses will be "A" grades.

Department of Psychology Criteria for Letter Grades

Psychology professors use the following criteria when assigning letter grades:

A+ grade: Exceptional Performance. An A+ grade indicates near perfect performance on multiple choice and short answer exams. For research papers/essays/course projects/presentations, an A+ grade is awarded for exceptional work deserving of special recognition and is therefore not a common grade.

A, A- Range: Excellent Performance. Superior understanding of course material. Written work is very strong in terms of critical and original thinking, content, organization, and the expression of ideas, and demonstrates student's thorough knowledge of subject matter.

B Range: *Good Performance*. Above average understanding of course material. Written work shows evidence of critical thinking and attention to organization and editing but could be improved in form and/or content.

C Range: Satisfactory Performance. Adequate understanding of course material. Knowledge of basic concepts and terminology is demonstrated. Written work is satisfactory and meets essential requirements but could be improved significantly in form and content. Note: All prerequisites for courses offered by the Faculty of Arts must be met with a minimum grade of C-.

D range: *Marginally meets standards*. Minimal understanding of subject matter. Written work is marginally acceptable and meets basic requirements but requires substantial improvements in form and content. Student has not mastered course material at a level sufficient for advancement into more senior courses in the same or related subjects.

F grade: *Course standards not met*. Inadequate understanding of subject matter. Written work does not meet basic requirements. Student has not demonstrated knowledge of course material at a level sufficient for course credit.

Grading Scale

A+	96-100%	B+	80-84%	C+	67-71%	D+	54-58%
Α	90-95%	В	76-79%	С	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/Activity/Readings/Due Date (revise and add columns & rows as necessary)	Supplemental Reading (optional) and Important Dates
M Sep 9	Lecture begins.	Ch. 2 – Pedhauzer
	Introduction and overview. Review of GLM basics.	
Sep 11-	Introduction and overview. Review of GLM basics.	Ch. 3 - Pedhauzer
13		
Sep 16 -	Introduction to Regression analysis.	
20		
W Sep	Regression analysis continued.	
18		

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F Sep	Regression analysis continued.	
20	Land do to do of the control (MA III) and Fall	
	Last day to drop full courses (Multi-term) and Fall Term half courses.	
	No refunds for full courses (Multi-term) or Fall Term	
NA Com	half courses after this date.	
M Sep	Regression analysis continued.	
23	Last day to add or swap full sources (Multi torm) and	
	Last day to add or swap full courses (Multi-term) and Fall Term half courses.	
	Last day for change of registration from audit to	
	credit or credit to audit.	
W Sep	Regression analysis continued.	
25	Regression analysis continued.	
F Sep	Regression analysis continued.	
27	negression analysis continued.	
	Fee payment deadline for Fall Term full and half	
	courses.	
M Sep	Regression analysis continued.	
30	negression unutypis continuous	
W Oct 2	Regression analysis continued.	
F Oct 4	Regression analysis continued.	
M Oct 7	Regression analysis continued.	
W Oct 9	Regression analysis continued.	
F Oct	Regression analysis continued.	
11		
M Oct	Thanksgiving Day, University closed (except Taylor	
14	Family Digital Library, Law, Medical, Gallagher and	
	Business Libraries). No lectures.	
W Oct	Midterm Exam 1	To the end of simultaneous multiple
16		regression
F Oct	Regression analysis continued.	
18		
M Oct	Regression analysis continued.	
21		
W Oct	ANOVA	
23		
F Oct	ANOVA	
25		
M Oct	ANOVA	
28	ANOVA soutioned	
W Oct	ANOVA continued	
30	ANOVA continued	
F Nov 1	ANOVA continued	
M Nov	ANOVA continued	
1		
4 W Nov	Planned Comparisons	

6		
F Nov	Midterm Exam #2	From hierarchical regression to the
8		end of planned comparisons
Nov 9-	Reading days. No Lectures.	
12		
M Nov	Remembrance Day (Observed). University Closed	
11	(except Taylor Family Digital Library, Law, Medical,	
	Gallagher and Business Libraries). No lectures.	
W Nov	Mixed Model Regression	Ch. 15 – Pedhauzer
13		
F Nov	MMR continued	
15		
M Nov	MMR continued	
18		
W Nov	MMR continued	
20		
	ANCOVA	
F Nov	ANCOVA continued	
22		
M Nov	Multivariate Analysis of Variance (MANOVA)	Ch. 15 - Diekhoff
25		
W Nov	MANOVA continued	
27		
F Nov	MANOVA continued	
29		
M Dec	Discriminant Function Analysis (DFA)	Ch. 14 - Diekhoff
2		
W Dec	DFA continued	
4		
F Dec 6	DFA continued	
	F-II T I FI	
	Fall Term Lectures End.	
	Last day to withdraw with permission from Fall Term	
Dan C	half courses.	
Dec 9-	Fall Term Exam Period.	
19		

Tentative Laboratory Schedule

Date	Topic	Assignments and due dates		
Sep 9 – 13	No labs this week			
Sep 16 – 20	Lab orientation			
M Sep 23 – 27	Linear Regression	Receive Assignment 1 (linear regression)		
M Sep 30 – Oct 4	Multiple Regression	Receive Assignment 2 (multiple regression)		
M Oct 7 – 11	Multiple regression	Assignment 1 due		

	continued (Exam review, time permitting)	
M Oct 14 – 18	No labs this week. Exam week.	
M Oct 21 – 25	ANOVA and planned comparisons	Receive assignment 3 (ANOVA) Assignment 2 due.
M Oct 28 – Nov 1	Exam Review	Assignment 3 due.
M Nov 4 – 8	No labs this week. Exam week	
M Nov 11 – 15	No labs this week. Reading days.	
M Nov 18 – 22	Mixed Model Regression	Receive Assignment 4 (MMR).
M Nov 25 – 29	Multivariate Analysis of Variance (MANOVA)	Receive Assignment 5 (MANOVA). Assignment 4 due.
M Dec 2 – 6	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; no reappraisal of term work is permitted after the 15 days. 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.

Travel During Exams

Consistent with University regulations, students are expected to be available to write scheduled exams at any time during the official December and April examination periods. Requests to write a make-up exam because of conflicting travel plans (e.g., flight bookings) will NOT be considered except under exceptional circumstances. Students are advised to wait until the final examination schedule is posted before making any travel arrangements.

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:

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 Dec 6, 2013

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: 403-220-3911suvpaca@ucalgary.caStudent Union Faculty Rep.:Phone: 403-220-3913socialscirep@su.ucalgary.ca

Student Ombudsman's Office

The Office of the Student Ombudsmen 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 **September 20, 2013**. Last day for registration/change of registration is **September 23, 2013**. The last day to withdraw from this course is **December 6, 2013**.