
Psychology 411 (02)	Design and Analysis in Psychological Research	Fall 2015
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Instructor:	Dr. K. Edwin Sheppard	Lecture Location:	SA 235
Phone:	403-220-8970	Lecture Days/Time:	T/R: 8:00 – 9:15
Email:	kesheppa@ucalgary.ca	[Lab and/or TA info in remaining cells (delete if N/A)]	T: 10:00 – 11:50 M: 11:00 – 12:50
Office:	Admin 157	Teaching Assistants	David Mayers Lab 03 Sam Chow Lab 04
Office Hours:	TBA		

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. Supplementary readings will be made available by the professor for when applicable.

Evaluation

Course Component	Weighting	Date
Exam 1	25%	Thursday October 8, 2015
Exam 2	25%	Tuesday November 10, 2015
Exam 3	30%	To be scheduled by registrar
Laboratory	20%	Seven assignments will be due throughout the term. See the lab schedule below for descriptions.

Exams (75% of final grade):

Exams will consist of short answer and computation questions, with considerable emphasis on short answer questions. The first exam (**Oct 8**) will cover the material up to and including the end of Hierarchical Regression. The second exam (**Nov 10**) will cover Hierarchical Regression to the end of planned comparisons. The final exam (to be scheduled by the registrar) **will be cumulative**.

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 (iPods, books, notes or phones) apart from those that may be provided by the instructor during the exam.

Laboratory (20%):

Lab assignments must be handed in at the beginning of the lab on which the due date falls (see the lab Schedule below). Assignments submitted following the beginning of lab will be marked one day late automatically. 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.

Assignment	Value
Lab 1: Survey Completion / Data Entry	2%
Lab 2: Correlation and Linear Regression	3%
Lab 3: Multiple Regression	3%
Lab 4: Hierarchical Regression	3%
Lab 5: ANOVA	3%
Lab 6: Mixed Model Regression	3%
Lab 7: MANOVA / DFA	3%

NOTE: it is expected that you will complete all components of the course. If you miss an exam without medical documentation, you will receive a score of 0 for that exam. Late assignments will be deducted 10% per day (including weekends), up to a maximum of 70% (7 days), at which point, late assignments will no longer be accepted.

Students must achieve a passing grade in both the class and the lab components to pass this course.

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%
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.

In this course there will be no rounding up of final grades, especially in light of the opportunities students have to increase their final grade via research participation.

Tentative Lecture Schedule

Date	Topic/Activity/Readings/Due Date
T Sep 8	Lecture begins. Introduction to the GLM
R Sep 10	Regression Model and Linear Regression
T Sep 15	Regression Continued
R Sep 17	Regression Continued
F Sep 18	Last day to drop full courses (Multi-term) and Fall Term half courses. No refunds for full courses (Multi-term) or Fall Term half courses after this date.
M Sep 21	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.
T Sep 22	Regression Continued
R Sep 24	Regression Continued
F Sep 25	Fee payment deadline for Fall Term full and half courses.
T Sep 29	Regression Continued
R Oct 1	Regression Continued
T Oct 6	Regression Continued
R Oct 8	Midterm 1: Material from September 8 – October 6
M Oct 12	Thanksgiving Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
T Oct 13	Regression Continued
R Oct 15	Regression Continued
T Oct 20	One-Way ANOVA
R Oct 22	One-Way ANOVA Continued
T Oct 27	Two-Way ANOVA
R Oct 29	Two-Way ANOVA Continued
T Nov 3	Planned Comparisons
R Nov 5	Planned Comparisons Continued
T Nov 10	Midterm 2: Material from October 13 – November 5
Nov 11-15	Reading Days. No lectures.
W Nov 11	Remembrance Day (Observed). University Closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
R Nov 12	Reading Days. No lectures.
T Nov 17	Mixed Model Regression
R Nov 19	Mixed Model Regression Continued / ANCOVA
T Nov 24	ANCOVA Continued
R Nov 26	MANOVA
T Dec 1	MANOVA Continued
R Dec 3	Discriminant Function Analysis
T Dec 8	Discriminant Function Analysis Continued Fall Term Lectures End. Last day to withdraw with permission from Fall Term half

	courses.
Dec 11-22	Fall Term Exam Period.

TENTATIVE LAB SCHEDULE

Date	Topic	
Sept 8 – 11	NO LAB	
Sept 14 – 18	Lab Orientation	Assignment 1: Survey Completion / Data Entry (Due in Lab)
Sept 21 – 25	Linear Regression	Receive Assignment 2: Linear Regression
Sept 28 – Oct 2	Multiple Regression	Receive Assignment 3: Multiple Regression <i>Assignment 2 Due</i>
October 5 – 9	Midterm 1 Review	<i>Assignment 3 Due</i>
October 12 – 16	Thanksgiving – NO LABS	
October 19 – 23	Hierarchical Regression	Receive Assignment 4: Hierarchical Regression
October 26 – 30	ANOVA	Receive Assignment 5: ANOVA <i>Assignment 4 Due</i>
Nov 2 – 6	Midterm 2 Review	<i>Assignment 5 Due</i>
Nov 9 – 13	Reading Days: NO LABS	
Nov 16 – 20	Mixed Model Regression	Receive Assignment 6: Mixed Model Regression
Nov 23 – 27	MANOVA	Receive Assignment 7: MANOVA/DFA <i>Assignment 6 Due</i>
Nov 30 – Dec 4	Final Exam Review	<i>Assignment 7 Due</i>
Dec 7 – 8	NO LABS THIS WEEK	

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

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services ; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/.

Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor.

The full policy on Student Accommodations is available at http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy_0.pdf .

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 up to 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 during exam make-up hours provided by the department <http://psychology.ucalgary.ca/undergraduate/exam-and-course-information#mues>. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam http://www.ucalgary.ca/registrar/exams/deferred_final. Under no circumstances will this be accommodated by the department.

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 by the department. Students are advised to wait until the final examination schedule is posted before making any travel arrangements. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam http://www.ucalgary.ca/registrar/exams/deferred_final. Under no circumstances will this be accommodated by the department.

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 255), 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 **Dec 8, 2015**

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:
Student Union Faculty Rep.:

Phone: 403-220-3911
Phone: 403-220-3913

suvpaca@ucalgary.ca
socialscirep@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 18, 2015**. Last day for registration/change of registration is **September 21, 2015**. The last day to withdraw from this course is **December 8, 2015**.