



Department of Psychology
Psychology 615 (LO1) – Advanced Research Design and Analysis I
Fall 2011– Course Outline

Instructor:	Charles (Chip) Scialfa	Lecture Location:	A 051/053
Phone:	403-220-4951	Lecture Days/Time:	MW 1400-1515
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TA:	Jody Arndt	Lab Location:	SS 018
Phone:	403-220-4667	Lab Days/Time:	F 0900-1200
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Office:	A008		
Office Hours:	F 1200-1400		

Course Description and Goals

Applications of the general linear model to research design and analysis. Topics include analysis of variance, regression and analysis of covariance.

Required Text

Maxwell, S.E. & Delaney, H.D. (2004). Designing experiments and analyzing data: A model comparison perspective, 2nd Ed. Mahwah, NJ: Lawrence Erlbaum Associates. U of C Bookstore.

Evaluation

There will be one mid-term and one final exam, specific dates to be decided after consulting with the class. The mid-term exam will be in class. The final exam will be over a 1-day (9 am to 5 pm period). They will each be a combination of true-false, short answer and computational questions. Each will count 33% of your final mark. The remainder of your final mark will come from the lab component. Students must achieve a passing grade on both the class and lab components to pass this course.

Lab Assignments

During the semester you will receive 9 laboratory assignments. Your final grade will be a composite score out of 80 with all assignments equally weighted but the lowest score dropped. All assignments should be handed in on or before the due date, either during the scheduled lab session or at the Psychology Department Main Office (A275) before 12:00pm on the due date. Make sure that your TA's name (Jody Arndt) is clearly written on your assignment so it can be placed in the correct mailbox. Please note: ***Late assignments will not be marked.***

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.

Date	Topic/Activity/Readings/Due Date	Chapter	Lecture Notes
M Sep 12	Fall Session lectures begin Logic of Experimental Design	1,2	1,2
W Sep 14	Logic of Experimental Design		
F Sep 16	Lab - SPSS Intro: Data Coding and Descriptive Stats	Assignment due: Sep 23	
M Sep 19	Logic of Experimental Design	2,3	2, 3.1
W Sep 21	Logic of Experimental Design		
F Sep 23	Lab – Plotting Data Last day to drop a course with no W grade and tuition refund.	Assignment due: Sep 30	
M Sep 26	One-Way Between-Subjects Designs Last day for registration/change of registration.	3	3.1, 3.2
W Sep 28	One-Way Between-Subjects Designs		
F Sep 30	Lab - One-way B/S ANOVA	Assignment due: Oct 7	
M Oct 3	One-Way Between-Subjects Designs		
W Oct 5	One-Way BS Designs		
F Oct 7	Lab - Orthogonality and Multiple Comparisons	Assignment due: Oct 28	
M Oct 10	Thanksgiving Day. No lecture. University closed.		
W Oct 12	Individual Means Comparisons	4	4
F Oct 14	NO LAB		
M Oct 17	Individual Means Comparisons		
W Oct 19	Multiple Comparisons	5	5

F Oct 21	NO LAB		
M Oct 24	Trend Analysis	6	6
W Oct 26	Trend Analysis		
F Oct 28	Lab - Trend Analysis	Assignment due: Nov 4	
M Oct 31	Test 1 – Only Up To One-Way Designs	1-6	Test 1 – Only Up To One-Way Designs
W Nov 2	Two-Way Between-Subjects Designs	7	7.1, 7.2
F Nov 4	Lab – Factorial BS Designs and Simple Effects	Assignment due: Nov 18	
M Nov 7	Two-Way Between Subjects Designs		
W Nov 9	Higher-Order BS Designs	8	8
F Nov 11	Reading days. No lecture.		
M Nov 14	ANCOVA	9	9.1
W Nov 16	ANCOVA	9	9.2
F Nov 18	Lab - ANCOVA and ANCOHET	Assignment due: Nov 25	
M Nov 21	ANCOHET		
W Nov 23	One-Way Within-Subjects Designs	11	10
F Nov 25	Lab - One-way WS ANOVA	Assignment due: Dec 2	
M Nov 28	One-Way and Higher-Order WS Designs	12	12
W Nov 30	Higher-Order WS Designs	12	12
F Dec 2	Lab - Higher Order WS ANOVA – Univariate	Assignment due: Dec 9	
M Dec 5	Higher-Order WS Designs	12	12

W Dec 7	Review		
F Dec 9	Lab - Question and answer session Lecture ends. Last day to withdraw.		
Dec 12-15	Final Exam to be Scheduled with Class		

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.

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.

Important Dates

The last day to drop this course and **still receive a tuition fee refund** is **Sep 23rd, 2011**. Last day for registration/change of registration is **Sep 26th, 2011**. The last day to withdraw from this course is **Dec 9th, 2011**.