



Department of Psychology

Psychology 615 (L01) – Advanced Research Design & Analysis I

Fall 2006

Instructor:	Chip Scialfa	Lecture Location:	A247B
Phone:	220-6532 or 220-4951 (lab)	Lecture Days/Time:	MW 10:00 – 11:15
Email:	scialfa@ucalgary.ca	Lab Location:	A253
Office:	A151B	Lab Days/Time:	F 9:00 – 11:45
Office Hours:	TBA Jenn Nicol 220-6348	Office: 141E	
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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.

Evaluation

There will be one mid-term and one final exam, specific dates to be decided after consulting with the class. 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.

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.”

Course Schedule (See separate Lab schedule for details)

Date	Topic	Chapters	Notes
Sept. 4	Labour Day – University closed		
Sept. 5-9	Fall Session Block Week		
Sept. 11	Fall Session lectures begin Logic of Experimental Design	1,2	1,2
Sept. 13	Logic of Experimental Design		
Sept. 15	Lab 1 – SPSS Intro		
Sept. 18	Logic of Experimental Design	2,3	2, 3.1
Sept. 20	Logic of Experimental Design		
Sept. 22	Last day for Fall registration and change of registration for Fall Session or full courses. No fee withdrawals after this date. – Lab 2 Data Coding and Descriptive Statistics		
Sept. 25	One-Way Between-Subjects Designs	3	3.1, 3.2
Sept. 27	One-Way Between-Subjects Designs		
Sept. 29	Lab 3 – Plotting Data		
Oct. 2	One-Way BS Designs	3	3.1, 3.2
Oct. 4	One-Way BS Designs		
Oct. 6	Lab 4 – One-Way ANOVA		
Oct. 9	Thanksgiving Day – no classes		
Oct. 11	Individual Means Comparisons	4	4
Oct. 13	Lab 5 Orthogonality and Multiple Comparisons		
Oct. 16	Multiple Comparisons	5	5
Oct. 18	Trend Analysis	6	6
Oct. 20	Lab 6 – Trend Analysis		
Oct. 23	Two-Way Between-Subjects Designs	7	7.1, 7.2
Oct. 25	Two-Way Between Subjects Designs		
Oct. 27	Lab 7 – 2 X 2 Factorial Designs and Simple Effects		
Oct. 30	Test 1 – Only Up To One-Way Designs	1-6	
Nov. 1	Higher-Order BS Designs	8	8
Nov. 3	Lab 8 – Higher Order BS Designs (No Assignment)		
Nov. 6	ANCOVA	9	9.1
Nov. 8	ANCOVA	9	9.2
Nov. 10	Lab 9 – ANCOVA & ANCOHET		
Nov. 11-14	Reading Days – No Classes		
Nov. 15	One-Way Within-Subjects Designs	11	10
Nov. 17	Lab 10 – ONE-WAY WS ANOVA		
Nov. 20	Higher-Order WS Designs	12	12
Nov. 22	Higher-Order WS Designs	12	12
Nov. 24	Lab 11 – Higher-Order WS Designs (a la Chip)		
Nov. 27	MANOVA	13	13
Nov. 29	Log Linear Models	None	none
Dec. 1	Lab 12 - MANOVA		
Dec. 4	Review		
Dec. 6	Review		

Dec. 7	Last day to allocate Bonus Credits to Fall Session half courses.
Dec. 8	Last day of lectures for Fall Session. Last day to withdraw from Fall Session half courses. Lab 13 - Review
Dec. 11-20	Fall Session Final Examinations TBA

Reappraisal of Grades

A student who feels that a piece of graded term work (term paper, essay, test, etc.) has been unfairly graded, may have the work re-graded as follows. The student shall discuss the work with the instructor within fifteen 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 fifteen 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 fifteen 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 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 fourteen (14) days after the start of this course.

Absence From A Test

Make-up exams are NOT an option without an official University medical excuse (see the University Calendar). You must contact the instructor before the scheduled examination or you will have forfeited any right to make up the exam. At the instructor's discretion, a make-up exam may differ significantly (in form and/or content) from a regularly scheduled exam. Except in extenuating circumstances (documented by an official University medical excuse), a makeup exam is written within two (2) weeks of the missed exam.

A completed Physician/Counselor Statement will be required to confirm absence from a test for health reasons. The student will be required to pay any cost associated with the Physician Counselor Statement.

Important Dates

The last day to drop this course and **still receive a fee refund** is September 22, 2006. The last day to withdraw from this course is December 8, 2006.