



**Department of Psychology**  
**Psychology 615(L01) – Advanced Research Design and Analysis I**  
**Fall 2010 – Course Outline**

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<b>Instructor:</b>	C.T. (Chip) Scialfa	<b>Lecture Location:</b>	Admin. 253
<b>Phone:</b>	403-220-4951	<b>Lecture Days/Time:</b>	TR 12:30-13:45
<b>Email:</b>	<a href="mailto:Scialfa@ucalgary.ca">Scialfa@ucalgary.ca</a>	<b>[Lab and/or TA info in remaining cells</b>	Brenda Nguyen <a href="mailto:Brenda.nguyen@ucalgary.ca">Brenda.nguyen@ucalgary.ca</a>
<b>Office:</b>	Admin 151		Admin 141F
<b>Office Hours:</b>	TBA		

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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. 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.

### 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-).

Date	Topic/Activity/Readings		
T Sep 14	Fall Session lectures begin Logic of Experimental Design	1,2	1,2
R Sep 16	Logic of Experimental Design		
T Sep 21	Logic of Experimental Design	2,3	2, 3.1
R Sep 23	Logic of Experimental Design		
F Sep 24	Last day to drop a course with tuition refund.		
M Sep 27	One-Way Between-Subjects Designs Last day for Fall registration and change of registration for Fall Session or full courses. No fee withdrawals after this date.	3	3.1, 3.2
T Sep 28	Last day for registration/change of registration. One-Way Between-Subjects Designs		
R Sep 30	One-Way Between-Subjects Designs		
T Oct 5	One-Way BS Designs		
R Oct 7	Individual Means Comparisons	4	4
T Oct 12	Multiple Comparisons	5	5
R Oct 14	Trend Analysis	6	6
T Oct 19	Test 1 – Only Up To One-Way Designs	1-6	
R Oct 21	Two-Way Between-Subjects Designs	7	7.1, 7.2
T Oct 26	Two-Way Between Subjects Designs		
R Oct 28	Higher-Order BS Designs	8	8
T Nov 2	ANCOVA	9	9.1
R Nov 4	ANCOVA	9	9.2

T Nov 9	ANCOHET		
R Nov 11	Remembrance Day. No lecture.		
T Nov 16	ANCOHET		
R Nov 18	One-Way Within-Subjects Designs	11	10
T Nov 23	One-Way and Higher-Order WS Designs	12	12
R Nov 25	Higher-Order WS Designs	12	12
T Nov 30	Higher-Order WS Designs	12	12
R Dec 2	Log-linear Models	None	None
T Dec 7	Log-linear Models	None	None
R Dec 9	Lecture ends. Review		
F Dec 10	Last day to withdraw.		

### **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.

### **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 24, 2010**. Last day for registration/change of registration is **Sep 28<sup>th</sup>, 2010**. The last day to withdraw from this course is **Dec 10, 2010**.