

Rice University  
Department of Psychology

**PSYC 339: Statistical Methods for Psychology**

Spring 2008  
Tuesdays and Thursdays 1:00 – 2:20  
HZ 210

**Instructor**

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Office Hours Tuesday and Thursday 2:30-3:30, or by appointment

**Teaching Assistants**

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**Required Texts:**

Gravetter, F.J. and Wallnau, L.B.(2007). *Statistics for the Behavioral Sciences*, 7<sup>th</sup> ed, Belmont CA: Wadsworth

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Gravetter, F.J. and Wallnau, L.B.(2007). *Study Guide for Statistics for the Behavioral Sciences*, 6<sup>th</sup> ed, Belmont CA: Wadsworth

Date	Lecture	Topic	Readings	Homework Due All EVEN problems
1-8	1	Course Logistics, Intro to statistics	Chapter 1	
1-10	2	Frequency distributions	Chapter 2	
1-15	3	Central Tendency	Chapter 3	Chapter 1
1-17	4	Measures of variability	Chapter 4	Chapter 2
1-22	5	Standardized z scores	Chapter 5	Chapter 3
1-24	6	Probability	Chapter 6	Chapter 4
1-29	6	Probability distributions	Chapter 6	Chapter 5
1-31		<b>EXAM 1</b>		Chapter 6
2-5	7	Sample means and distributions	Chapter 7	
2-7	8	Hypothesis testing	Chapter 8	

2-12	8	Hypothesis testing	Chapter 8	Chapter 7
2-14	9	Introduction to the t statistic	Chapter 9	
2-19	10	t test for 2 independent samples	Chapter 10	Chapter 8
2-21	11	t test for 2 related samples	Chapter 11	Chapter 9 Chapter 10
2-26	12	Estimation	Chapter 12	Chapter 11
2-28		<b>EXAM 2</b>		
3-4		<u>MIDTERM RECESS – No class</u>		
3-6		<u>MIDTERM RECESS – No class</u>		
3-11	13	Introduction to analysis of variance	Chapter 13	Chapter 12
3-13	14	Repeated measures ANOVA	Chapter 14	
3-18	14	Analysis of variance continued		Chapter 13
3-20	15	Two Factor ANOVA	Chapter 15	Chapter 14
3-25	16	Correlation	Chapter 16	
3-27	17	Regression	Chapter 17	Chapter 15
4-1	18	Non-parametric tests	Chapter 18	Chapter 16
4-3		<u>SPRING RECESS – No class</u>		
4-8	18	Chi Square Statistic	Chapters 18	Chapter 17
4-10	19	Non-parametric Statistics	Chapter 19 Chapter 20	
4-15	20	Non-parametric Statistics	Chapter 19 Chapter 20	Chapter 18
4-17		Special Topics – Catch up		
4-22		Review for Final Examination		Chapter 19 Chapter 20

## Course communication

Lecture notes will be posted immediately after the lecture and can be found on my website at [www.drkortum.com](http://www.drkortum.com) on the "teaching" tab. The direct access address is <http://www.ruf.rice.edu/~pkortum/Teaching.html>

You are always welcome to email me questions about the lecture material. Homework questions should initially be directed to your TA

## Recitation Sections

You must sign up to attend 1 of the following recitation sections. During recitation, your TA's will work supplementary problems, cover material that might not have been covered in lecture, help with questions and problems, cover computer methods and help you in preparation for the examinations. Remember, a portion of your grade depends on completion of the computer exercises. All Recitations are held in Sewall Hall 133. Recitation times will be announce the first day of class.

## Grading:

Your grade will be based on the homework, computer methods homework, 3 in-class exams and the comprehensive final. Each of these will be weighted as shown below

Homework	15%
Computer labs	5%
Exam 1	25%
Exam 2	25%
Comprehensive Final Exam:	30%

You will be assigned all of the EVEN homework problems at the end of each chapter. The homework grade will be based on the best 18 of the 20 homework assignments that you turn in. Homework is due on the designated day at the beginning of class. Homework not turned in on time will be graded as a zero.

Computer assignments will be completed in recitation. Your recitation computer grade will be based on the best 11 of the 12 computer assignments that you complete.

Examination material will include everything that is covered in the book chapters and my lecture material. This material will be very closely related, but I may not lecture on everything that is in the book, and some things covered in lecture are not covered in this book. You are still responsible for that material on examinations!

Final letter grades will be assigned on an absolute scale, shown below

97-100	A+
93-96	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
Below 60	F

**Calculators**

You will need a basic function calculator for the homework and tests. Square root is the only advanced function that you will need. If you have a calculator that has advanced statistical functions you may use the calculator but you will not be allowed to use any of the statistical functions during the exams.

**Disabilities:**

If you have a documented disability that requires accommodation, please let me know so we can confidentially discuss your needs. You will also need to register with the Disability Support Services Office in the Ley Student Center.

**Honor System Policy:**

As with all endeavors at Rice, you are expected to adhere to the Honor Code and follow the guidelines given in the Blue Book. Exams are given under the honor system. Homework may be done with other students, but only for the purpose of help and support. Each student must complete all of his/her own homework. Students are encouraged to bring any concerns involving academic integrity to the attention of the instructor.