

# ***PSYC 2127 EL 03: Scientific Methods and Analysis II – 2007***

## **COURSE OUTLINE**

**INSTRUCTOR:** Dr. Rashmi Garg

**OFFICE HOURS:** Rashmi Garg Monday/Tuesday: 3:00-4:00 p.m. in Room A228

**TEXTBOOK:** Gravetter and Wallnau. *Essentials of Statistics in the Behavioral Sciences*.

<b><i>Topics</i></b>	<b><i>Chapter</i></b>	<b><i>Recommended Exercises</i></b>
Introduction to psychological research		
Introduction to inferential statistics	7, 8	Chapter 7: 1, 2, 4, 6, 8, 13, 16 Chapter 8: 2, 3, 7, 8, 13, 14
Z-test with one mean and t-test with one mean	8, 9	Chapter 9: 1, 2, 3, 7, 14, 25
Independent-sample t-test	10	1, 3, 4, 5, 10, 11, 23
Related sample t-test	11	1, 2, 3, 10, 13, 16
Type I, Type II error and power	8, 12	Chapter 8: 5, 6 Chapter 12: 3, 4
One-way analysis of variance with independent groups	13	1, 2, 3, 4, 6, 9, 16, 20
Repeated analysis of variance	14	1, 2, 3, 4, 5, 10, 13
Chi-square and other non-parametric statistics	16	1, 2, 7, 9, 11, 12

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2. There are online assignments. Details for them will be given in the class.

**Grade Allocation:**

In-class tests	40%
Assignments	15%
Final exam	45%