

STAT 2126 EL 05: Scientific Method and Analysis I
 Fall 2006
 Tuesdays & Thursdays: 2:30-4:00 p.m.
 Room C204

Course Outline

Instructor: Anna-Liisa Mottonen
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Office Hours: Tuesdays & Thursdays: 1:00-2:00 p.m.
Teaching Assistant: T.B.A.

Textbook: *Essentials of Statistics for the Behavioral Sciences* (5th Edition)
 by Gravetter and Wallnau.

| Topic | Chapter |
|---|---------|
| Introduction, Definitions, Scales of Measurement, Statistical Notation, Scientific Method | 1 |
| Frequency Distributions, Grouped Data, Graphing | 2 |
| Measures of Central Tendency | 3 |
| Measures of Variability | 4 |
| Normal Curve, Z-Scores | 5 |
| Probability | 6 |
| Central Limit Theorem, Hypothesis Testing, Inferential Statistics, T-Tests, Confidence Intervals | 7-12 |
| Correlation, Regression | 15 |
| ANOVA, Chi-Square | 13 & 16 |

Grade Allocation: 4 Tests.....60% (15% each)
 Final Exam.....40%

Notes:

1. Test dates will be decided upon in class.
2. Only non-programmable calculators may be used during the tests and exam.
3. Please inform the instructor ahead of time if a test must be missed, not on the day of or after the test.