# PSY 387 – Elementary Statistics
## Summer 2008

**Instructor:** **Laura Heinonen**
**Class Time:** **Tuesday, 8:30-11:35am**
**Phone:** **936-294-1210**
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## Required Text

Keiss, H. O. (1996). *Statistical Concepts for the Behavioral Sciences (2nd Edition)*. Allyn & Bacon. ISBN 0205166482

## Course Description

This course is designed to teach students the basic concepts of statistics as applied to psychology. Fundamental principles of statistical analysis will be discussed, including both descriptive and inferential statistics.

## Course Objectives

1. Students will gain factual knowledge in the area of statistical analysis and learn the basic terminology and concepts of statistics.
2. Students will learn the fundamental principles of statistical analysis and be able to determine appropriate statistics for basic research designs.
3. Students will learn how to interpret and apply the outcomes of statistical analysis with respect to psychological research.

## Course Requirements

Eight quizzes will be administered during the semester. Each student will be permitted to drop the 2 lowest quiz grades. The final course grade will be based on the remaining 6 quiz scores. The format for each quiz will be multiple choice and each quiz will be worth 100 points. The following grading system will be used for all quizzes and the final course grade: (A = 100-90%, B = 89-80%, C = 79-70%, D = 69-60%, F = 59-0%).

## Attendance Policy

Attendance in class is *mandatory*. Quizzes are heavily weighted toward material covered in lectures. In keeping with university policy, 2 absences are allowed without any penalty. Three or more absences will result in a grade reduction. Special circumstances will be considered.

## Academic Honesty

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. DO NOT CHEAT!!!

## Students with Disabilities

Students with disabilities that might affect their academic performance are expected to make arrangements with the instructor so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired. SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities.

## Course Schedule

The course schedule is tentative and may be changed at the discretion of the instructor. An updated syllabus will be provided if significant changes occur.

| DATE | TOPIC | READINGS |
|------|-------|----------|
| June 3 | Introduction | Chapters 1 & 2 |
| June 10 | Frequency Distribution & Central Tendency | Chapters 3 & 4 |
| June 17 | **Quiz #1** | |
| | Lecture: Variability | Chapter 5 |
| June 24 | **Quiz #2** | |
| | Lecture: Normal Distribution & Probability | Chapter 6 |
| July 1 | **Quiz #3** | |
| | Lecture: Statistical Inference | Chapter 7 |
| July 8 | **Quiz #4** | |
| | Lecture: Hypothesis Testing | Chapter 8 |
| July 15 | **Quiz #5** | |
| | Lecture: One-Factor ANOVA | Chapter 10 |
| July 22 | **Quiz #6** | |
| | Lecture: Two-Factor ANOVA | Chapter 11 |
| July 29 | **Quiz #7** | |
| | Lecture: Repeated Measures ANOVA | Chapter 12 |
| Aug 5 | **Quiz #8** | |