

University of Oregon  
College of Arts and Sciences  
Department of Psychology

**Psychology 302**  
**Statistical Methods in Psychology**

**Instructor Information**

Instructor: Kean H Chew  
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Office Hours: WF 12-1 pm and by appointment  
Course Hours: MWF 11-11:50 pm, 142 Straub

Lab TA: Sue Rao  
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Office Hours: H 11:30-12:30 pm and by appointment  
Section Hours: W 1-1:50 pm, 244 Gilbert

**Purpose and Objectives**

The purpose of this course is to provide you with an introduction to the statistical methods that are generally applied in psychological research. Topics that will be covered will include, but not limited to, descriptive statistics, correlation, regression, sampling distribution, hypothesis testing, confidence intervals, sample vs. population means, independent groups and correlated (dependent) samples t-tests, and chi-square test. Emphasis will be on both understanding and computational skills.

**Course Requirements**

**Textbook and Readings:**

Witte, R. S. (1993). Statistics (Fourth Edition).  
You are strongly urged to read the chapter that will be covered in the lecture before coming to class.

**Class Meetings:**

The topics, for the most part, are highly related to one another. Your **regular attendance** is important to enable you to see the continuity of the materials covered. This will in turn facilitate your understanding of the subject matter. Bring your textbook to class as I will be referring to it from time to time. A calculator will be handy on those times when we work through sample problems together.

### Lab Meetings:

Although not mandatory, you are encouraged to attend lab meetings. Your lab instructor will

- 1) reiterate and emphasize the key concepts covered in lectures
- 2) answer queries related to homework questions
- 3) answer queries you might have regarding the subject matter.
- and 4) return graded assignments and midterm examination.

Your lab instructor may have additional assignments.

### Homework:

There will be a total of seven assignments. As the midterm and final examinations will be similar to the questions of the homework assigned, you should put in the necessary effort to understand the underlying expectations from each assignment. Late homework will not be accepted without prior consent from the instructor.

### Examinations

There will be a midterm examination and a final examination. The format of the examinations will be announced in class. Here's the part you will all like: **Both examinations are open book and open notes** to make rote memorization unnecessary. However, be advised that, even with the open book and open notes policy, you should have a thorough understanding of the materials presented in order to do well in the course. No amount of last minute work will help. **Unless for medical reasons, there will be not be any make up examinations.** Please make your travel plans accordingly.

In addition to your books, notes, and pen/pencil, you should bring along a **CALCULATOR** and scratch papers to the examinations.

### Course Evaluation

Homework	21%
Midterm Examination	40%
Final Examination	40%

## Tentative Course Schedule

The schedule is subject to change. You are strongly urged to read the chapter that will be covered in the lecture before coming to class. From time to time it might be instructive to pause, reflect, and review what has been covered. These are the purposes of the so-called Overflow Days. If we are behind schedule, these days may be used as catch up days. Once again, take note that late homework will not be accepted without prior consent from the instructor. Unless for medical reasons, there will not be any make up exams. Make your travel plans accordingly.

### Week One

Wed, January 4: Orientation

Fri, January 6: Chapter 1 - Introduction  
& Appendix B - Levels of Measurement

### Week Two

Mon, January 9: Chapter 2 - Describing Data with Tables

Wed, January 11: Chapter 3 - Describing Data with Graphs

Fri, January 13: Chapter 4 - Describing Data with Averages  
**Homework 1 will be distributed**

### Week Three

Mon, January 16: Martin Luther King holiday; No lecture

Wed, January 18: Chapter 5 - Describing Variability

Fri, January 20: Overflow Day  
**Homework 1 due - Class time**  
**Homework 2 will be distributed**

### Week Four

Mon, January 23: Chapter 6 - Normal Distributions (I): Basics

Wed, January 25: Chapter 7 - Normal Distributions (II): Applications

Fri, January 27: Chapter 9 - Describing Relationships: Correlation  
**Homework 2 due - Class time**  
**Homework 3 will be distributed**

Week Five

Mon, January 30: Chapter 10 - Prediction

Wed, February 1: Chapter 10 - Prediction

Fri, February 3: Overflow Day

**Homework 3 due - Class time**  
**Homework 4 will be distributed**

Week Six

Mon, February 6: Review

Wed, February 8: Midterm

Fri, February 10: Chapter 11 - Populations, Samples, and Probability

Week Seven

Mon, February 13: Chapter 12 - Sampling Distribution of the Mean

Wed, February 15: Chapter 13 - Introduction to Hypothesis Testing

Fri, February 17: Chapter 14 - More about Hypothesis Testing

**Homework 4 due - Class time**  
**Homework 5 will be distributed**

Week Eight

Mon, February 20: Chapter 15 - Estimation

Wed, February 22: Overflow Day

Fri, February 24: Chapter 16 - t Test for One Sample

**Homework 5 due - Class time**  
**Homework 6 will be distributed**

Week Nine

Mon, February 27: Chapter 17 - t Test for Two Independent Samples

Wed, March 1: Chapter 18 - t Test for Two Dependent Samples

**Homework 6 due - Class time**  
**Homework 7 will be distributed**

Fri, March 3: Overflow Day

Week Ten

Mon, March 6: Chapter 21 - Chi-Square Test for Qualitative Data

Wed, March 8: Chapter 21 - Chi-Square Test for Qualitative Data  
Chapter 23 - Postscript: Which Test?

**Homework 7 due - Class time**

Fri, March 10: Review  
Course Evaluation

Finals Week

**Final Examination: March 17, 1995 @ 10:15 am**