

Economics 321  
Statistics

This course is an introduction to statistics for economics majors. Students will learn basic concepts in probability and statistics and learn to apply these concepts to data analysis. We will cover topics such as designing experiments, calculating basic summary variables, elementary regression analysis and hypothesis testing.

Students are expected to attend class regularly, complete weekly homework assignments, and take exams on dates as scheduled.

**Email and Office Hours**

Mondays 12-1pm and Fridays 1-2pm, 531 Saunders Hall  
Email: kwaks (at) hawaii (dot) edu

TA: To be announced

**Course Website**

To be announced.

**Course Materials**

Required textbook: Mario F. Triola, *Essentials of Statistics*. Available at the student bookstore.

**Requirements and Grades**

Final class grades will be based on the following:

Quizzes	20%
Problem Sets	20%
Two Midterms	40%
Final Exam	20%

Weekly problem sets will be assigned each Friday to be turned in the following Friday.

There are no makeup quizzes. Students are strongly encouraged to attend lectures.

Midterm exams will be held on Friday February 12, 2010 and Friday March 19, 2010.

The final exam will be held 9:45-11:45am Monday May 10, 2010.

There are NO MAKEUP EXAMS so it is essential that you be able to attend these dates. If you require any disability-related special accommodations for exams, please speak to me the first week of class so that we can make appropriate arrangements.

## Lecture Schedule and Readings

### Week 1

- 1/11 (M) **Course Overview**  
Triola, Ch 1
- 1/13 (W) **Intro to Statistics**  
Triola, Ch 1
- 1/15 (F) **Summarizing/Graphing Data**  
Triola, Ch 2

### Week 2

- 1/18 (M) **Holiday**  
No class
- 1/20 (W) **Summarizing/Graphing Data**  
Triola, Ch 2
- 1/22 (F) **Descriptive Statistics**  
Triola, Ch 3

### Week 3

- 1/25 (M) **Descriptive Statistics**  
Triola, Ch 3
- 1/27 (W) **Descriptive Statistics**  
Triola, Ch 3
- 1/29 (F) **Discussion Section**

### Week 4

- 2/1 (M) **Discrete Probability**  
Triola, Ch 4, 5
- 2/3 (W) **Discrete Probability**  
Triola, Ch 4, 5
- 2/5 (F) **Normal Probability**  
Triola, Ch 4, 6

### Week 5

- 2/8 (M) **Normal Probability**  
Triola, Ch 4, 6
- 2/10 (W) **Normal Probability**  
Triola, Ch 4, 6
- 2/12 (F) **MIDTERM #1**

### Week 6

- 2/15 (M) **Holiday**  
No class
- 2/17 (W) **Estimates and Sample Sizes**  
Triola, Ch 7
- 2/19 (F) **Estimates and Sample Sizes**  
Triola, Ch 7

### Week 7

- 2/22 (M) **Estimates and Sample Sizes**  
Triola, Ch 7
- 2/24 (W) **Estimates and Sample Sizes**  
Triola, Ch 7
- 2/26 (F) **Discussion Section**

### Week 8

- 3/1 (M) **Hypothesis Testing**  
Triola, Ch 8
- 3/3 (W) **Hypothesis Testing**  
Triola, Ch 8
- 3/5 (F) **Hypothesis Testing**  
Triola, Ch 8

### Week 9

- 3/8 (M) **Hypothesis Testing**  
Triola, Ch 8
- 3/10 (W) **Hypothesis Testing**  
Triola, Ch 8
- 3/12 (F) **Discussion Section**

### Week 10

- 3/15 (M) **Inference from Two Samples**  
Triola, Ch 9
- 3/17 (W) **Inference from Two Samples**  
Triola, Ch 9
- 3/19 (F) **MIDTERM #2**

**SPRING BREAK**

Week 11

- 3/29 (M) **Inference from Two Samples**  
Triola, Ch 9
- 3/31 (W) **Discussion Section**  
Triola, Ch 9
- 4/2 (F) **Holiday**  
No class

Week 12

- 4/5 (M) **Correlation and Regression**  
Triola, Ch 10
- 4/7 (W) **Correlation and Regression**  
Triola, Ch 10
- 4/9 (F) **Correlation and Regression**  
Triola, Ch 10

Week 13

- 4/12 (M) **Multinomial Experiments**  
Triola, Ch 11
- 4/14 (W) **Multinomial Experiments**  
Triola, Ch 11
- 4/16 (F) **Discussion Section**

Week 14

- 4/19 (M) **Analysis of Variance**  
Triola, Ch 12
- 4/21 (W) **Analysis of Variance**  
Triola, Ch 12
- 4/23 (F) **Analysis of Variance**  
Triola, Ch 12

Week 15

- 4/26 (M) **Non-Parametric Statistics**  
Triola, Ch 13
- 4/28 (W) **Non-Parametric Statistics**  
Triola, Ch 13
- 4/30 (F) **Discussion Section**

Week 16

- 5/3 (M) **Last Lecture—Wrap-Up**