Instructor: Kevin Thom  
Classroom: Silver Center for Arts & Sciences, Room 713  
Meeting Times: MTW, 12:30 pm - 01:45 pm  
Office Hours: Monday, 9:00 am – 11:00 am  
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Course Description: This course offers an introduction to statistics. We begin by introducing the basics of data and samples from data. We will learn how to construct and interpret certain descriptive statistics, such as the mean and the variance, that characterize the distribution of data. After covering some basic concepts in probability theory, we will introduce the idea of a random variable and the distribution of a random variable, and look at some distributions that are important in applications, including the normal distribution and the binomial distribution. The second half of the course will be devoted to statistical inference and hypothesis testing. We will learn methods for drawing conclusions about a population from statistics associated with a sample from that population.

Textbook: [NOTE: the textbook is subject to change, but the Triola book and the MathXL platform were used in Spring 2009] The textbook for the course is Triola, Elementary Statistics, 11th ed. In conjunction with the book, we will be using the MathXL website for homework assignments and practice problems. The new copies of the 11th edition of the textbook come packaged with an Access Code for the MathXL website. However, you are free to purchase the 10th edition of the book and separately purchase an Access Code for the MathXL website.

Blackboard: I will also maintain a Blackboard website for the course containing this syllabus and copies of all of the lecture slides. You will also be able to privately monitor your grades throughout the course on the site.

Homeworks: Homework will be administered through the MathXL website. Detailed instructions about registering and using the MathXL website are attached. Homework assignments will be graded but you can check your answers up to three times before saving your work, so the homework assignments primarily function as a monitor of class participation and effort. I will post homework assignments early in the week (no later than Wednesday of a given week), and they will be due on the following Sunday at 11:59 PM. The course outline below lists the weeks during which homework will be assigned.
The number of problems on the each homework will vary, and each problem will be worth one point.

**Grading:** Your grade will be based upon your weekly online homework assignments (10%), two quizzes to be administered in section (15% each), the midterm exam (25%), and the final exam (35%).

**Approximate Outline of the Course:**

**Week 1: Jan 20-Jan 21**
Triola Chapter 1: Statistical Thinking / Types of Data  
Practice Homework (not graded): Sunday Jan 25.

**Week 2: Jan 26-Jan 28**
Triola Chapter 2: Distributions / Histograms / Graphs  
Triola Chapter 3: Intro. to Measuring Features of Distribution  
Homework: Sunday Feb 1.

**Week 3: Feb 2-Feb 4**
Triola Chapter 3: Measures of Center / Variation  
Homework: Sunday Feb 8.

**Week 4: Feb 9- Feb 11**
Review of Chapter 3 / Practice Problems  
Triola Chapter 4: Probability

*Quiz 1: In Section Week of Feb 9*

**Week 5: Feb 17 - Feb 18 (No Class on Feb 16)**
Triola Chapter 4: Probability  
Triola Chapter 5: Random Variables / Binomial Distribution  
Homework: Sunday Feb 22.

**Week 6: Feb 23-Feb 25**
Triola Chapter 5: Binomial Distribution  
Triola Chapter 6: The Normal Distribution  
Homework: Sunday, March 1

**Week 7: March 2-March 4**
Triola Chapter 6: The Normal Distribution / Central Limit Theorem  
Midterm Review  
(No Homework)

*Midterm Exam: Monday, March 9*
Week 8: March 10-March 11
  Midterm
  Special Topic … TBD

Spring Break: March 16-March 20

Week 9: March 23-March 25
  Triola Chapter 7: Estimating Population Parameters
  Homework: Sunday March 29.

Week 10: March 30-April 1
  Triola Chapter 8: Hypothesis Testing
  Homework: Sunday April 5.

Week 11: April 6- April 8
  Triola Chapter 8: Hypothesis Testing (Continued)
  No Homework (Quiz)

Quiz 2: In Section Week of April 6

Week 12: April 13-April 15
  Triola Chapter 9: Inferences from Two Samples (Time Permitting)
  Triola Chapter 10: Correlation and Regression
  Homework: Sunday April 19.

Week 13: April 20-April 22
  Triola Chapter 10: Correlation and Regression
  Triola Chapter 12: Analysis of Variance
  Homework: Sunday April 26.

Week 14: April 27-April 29
  Triola Chapter 12: Analysis of Variance
  Review

Final Exam: In Class May 4