**Statistics 102  Fall 2013**
Introduction to Business Statistics

**Linda Zhao**: lzhao@wharton.upenn.edu, Office: 470-JMHH.
Office Hours: 3:00 – 5:00 pm Mondays or by appointment

Duxbury (Most sections of Chapter 1 - 11 will be covered.)

**Additional optional reading**: *Statistics for Business, Decision making and Analysis*, Stine and Foster, 2011, Addison Wesley

**Canvas**: Most of the materials including announcements, lecture notes, homework, solutions, etc. will be available on our Canvas site.

**Lecture notes**: We will mainly deliver our lectures through slides and blackboard. Lecture slides will be available in our Canvas. We expect you to print out the slides before the class.

**Computer package**: The computer software JMP 10 will be used in the course. To access the software you need to purchase a 6-months (or longer) license at http://upenn.onthehub.com. JMP is also available in all the Wharton computer labs (F75-JMHH, F80-JMHH, 375-JMHH and 380-JMHH) and group study rooms.

**Homework and Projects**: Homework will be assigned and posted in our Canvas. Most homework assignments will be from the textbook, but there will also be three special assignments ("mini-projects"). Both homework and mini-projects will be collected and will be graded. The lowest homework score will be dropped at the end (not the mini-projects). *(No late homework or projects are acceptable.)*

**Exams**: There will be three in class quizzes, one midterm and a final. The midterm and final will be semi-closed book, i.e. a certain number of pages of notes are allowed. The quizzes will be closed book short exams (~10 minute each).

**Quizzes**:  
Quiz 1: Tuesday, Sept. 17th  
Quiz 2: Tuesday, Oct. 08th  
Quiz 3: Tuesday, Nov. 19th

**Midterm**: 6:00 pm - 7:30 pm, **Monday, Oct. 21**th  
**Final exam**: 6:00 pm - 8:00 pm, **Thursday, Dec. 19**th. (Comprehensive)

**Grade allocation**:  
Homework and Projects: 20%  
Quizzes: 8%  
Midterm: 27%  
Final: 45%

(The lowest homework score and lowest quiz score will be ignored in the final grade.)

**TAs**:  
Kapelner, Adam: kapelner@wharton.upenn.edu  
Office Hours:  
Satopaa, Ville: satopaa@wharton.upenn.edu  
Office Hours:

*August 8th 2013*
Syllabus:

1: 08/29/TH
   Lect 1-2: Normal distributions
   08/30/Friday JMP tutorial session 1 (optional) (4:00-5:30)
   09/02/Mon JMP tutorial session 2 (optional) (4:00-5:30)

2: 09/03/Tu
   Lect 1-2: Confidence intervals and hypotheses tests

3: 09/05/TH
   Lect 3-4: Two population means

4: 09/10/Tu
   Lect 3-4: Two population means

   *Homework 1: due by 5pm, Friday, Sept. 13.
   Use boxes in JMHH 400 = Stat Dept

5: 09/12/TH
   Lect 5: Simple regression

6: 09/17/Tu/
   *Quiz 1: covers Lecture 1-4
   Lect 6: Simple regression inference

7: 09/19/TH
   Lect 7: Goodness of fit

   *Homework 2: due before 5pm on Tuesday, Sept. 24th
   (In class or use boxes in JMHH-400)

8: 09/24/Tu
   Lect 8: Prediction

   *Homework 3: due before 5pm on Tuesday, Oct. 1
   (In class or use boxes in JMHH-400)

9: 09/26/TH
   Lect 9-10 Model Diagnostics

10: 10/01/Tu
    Lect 9-10 Model Diagnostics

   **Project 1: Due before 5pm on Tuesday Oct. 08, in 400JMHH
11: 10/03/TH
   Lect 11: Multiple reg. Part I

12: 10/08/Tu
   * Quiz 2 (lec 5 to lec 10)
   Lect 12: Multiple reg Part II

   10/10/ TH  Fall Break, No class

13: 10/15/Tu
   Lect 13: Multiple reg Part III

   * Homework 4 due before 5:00pm on Friday, Oct 18 , in 400 JMH.

   10/17 /TH Midterm Review  (No new lecture)

   *** 10/21/Mon  Midterm: 6:00 pm - 7:30 pm  
   (Lect 1- lecture 13)

14: 10/22/Tu
   Lect 14: Polynomial reg

15: 10/24/TH
   Lect 15: Model Building

16: 10/29/Tu
   Lect 16: Leverage, collinearity

17: 10/31/TH
   Lect 17: Leverage, collinearity

   **Project 2 due before 5:00 pm on Monday, Nov 04 in 400JMH.

18: 11/05/Tu
   Lect 18: One way ANOVA

19: 11/07/TH
   Lect 19: Two way ANOVA

20: 11/12/Tu
   Lect 20: Two way ANOVA

   * Homework 5: due 5:00 pm, Friday, Nov. 15, in 400 JMHH

21: 11/14/TH
   Lect 21: ANCOVA

22: 11/19/Tu
   * Quiz 3 (Lect 18- Lect 21)
   Lect 22: Time Series
23: 11/21/TH
   Lect 23: Financial data

   **Project 3 due 5:00pm, Tuesday, Nov. 26

24: 11/26/Tu
   Lect 24 Logistic reg I

25: 12/03/Tu
   Logistic reg I and II

26: 12/05/TH
   Logistic reg II

* Homework 6: Due before 5:00pm Tuesday, Dec. 10, in 400 JMH

27: 12/10/Tu Contingency table

   **** 12/19/2013  6:00-8:00 pm: Final exam Comprehensive!

Syllabus upload: We have a school-wide Syllabus Repository
(http://syllabi.wharton.upenn.edu)