STAT 5301 Intermediate Data Analysis I  
Spring Semester 2013

Lecture: TWRF 10:20-11:15am in Evans Lab 2004

Instructor: Yoonkyung Lee  
Office: 440B Cockins Hall  
Phone: 292-9495  
Office Hours: M 11:00-noon, W 4:00-5:00pm or by appointment  
Email: yklee@stat.osu.edu

Grader:  
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<th>Weiyi Xie</th>
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<td>Office</td>
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Textbook:

1. *Introduction to the Practice of Statistics* (Seventh Edition) 
   by D.S. Moore, G.P. McCabe, and B.A. Craig.  
   We will only cover Chapters 1-9 of this book. Students who prefer not to buy the full 
textbook may purchase an e-book version of the first nine chapters through the publisher 
(http://ebooks.bfwpub.com/ips7e.php; Custom Version Number: 1113336).

   by F.L. Ramsey and D.W. Shafer.  
   This is currently the textbook used in STAT 5302, the second course in the Intermediate 
   Data Analysis sequence. We will cover Chapters 1-6 of this book for STAT 5301.

The textbooks are on reserve in the Science and Engineering Library (SEL).

Website: The course has a web page on Carmen. You will find the class schedule, homework 
assignments, solutions, and other course announcements on the web page. Please check it on a 
regular basis.

Course Description

STAT 5301 is the first course in a two-semester non-calculus sequence in data analysis covering 
descriptive statistics, design of experiments, probability, statistical inference (one- and two-sample 
problem, goodness of fit, and one-way ANOVA).

STAT 5301 is a GE Data Analysis course.

Goals: Students develop skills in drawing conclusions and critically evaluating results based on 
data.

Expected Learning Outcomes: Students understand basic concepts of statistics and probability, 
comprehend methods needed to analyze and critically evaluate statistical arguments, and 
recognize the importance of statistical ideas.
Grading

Your course grade will be based on homework assignments, two midterms, and a comprehensive final exam.

Homework (20%): There will be approximately weekly assignments. Homework problems and solutions will be posted on Carmen. No late homework will be accepted. Homework is due at the beginning of class.

Midterm 1 (20%): tentatively on February 8 (Friday) in class.
Midterm 2 (25%): tentatively on March 8 (Friday) in class.
Final exam (35%): on April 26 (Friday) 10:00-11:45am

For the midterms you may bring one standard size (8.5×11 inch) sheet of notes. For the final exam, two sheets will be allowed. The final exam will be cumulative, but will emphasize the more recent material. A basic calculator will be necessary for the exams.

Computing

You will be required to do some basic statistical analyses on the computer using the statistical software package MINITAB for your assignments. This software is available at many Student Computer Centers (see http://ocio.osu.edu/elearning/labs-and-classrooms/labs for more information). It is also available for purchase or limited-time rental (about $30 for 6 months or about $50 for 12 months) from On The Hub: http://www.onthehub.com/minitab/

Academic Misconduct

Although students are encouraged to work together on assignments, each student must submit their own written work in his or her own words. Academic misconduct will not be tolerated and will be dealt with procedurally in accordance with University Rule (oaa.osu.edu/procedures).

Special Accommodations

Any student who feels they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss your specific needs. You should also contact the Office of Disability Services at 292-3307 or in 150 Pomerene Hall to coordinate reasonable accommodations for students with documented disabilities.