STAT 5301 Intermediate Data Analysis I  
Spring Semester 2014

Lecture: TR 8:00-9:55am in Smith Lab (SM) 1005

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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.  
   This book is not required and to be used as a reference for the first half of the course. We will only cover Chapters 1-9 of this book.

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

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-sample and two-sample problems, 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 so-
lutions 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 6 (Thursday) in class.
Midterm 2 (25%): tentatively on March 6 (Thursday) in class.
Final exam (35%): on April 23 (Wednesday) 8:00-9:45am

No make-up exams will be given. The final exam will be cumulative, but will emphasize the
more recent material. A basic calculator will be necessary for the exams. Exam rules will be
announced in class.

Computing
You will be required to do some basic statistical analyses on the computer using the statistical
software package R for your assignments. More details will be given on the course website.

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.