

**Statistics****401B Tentative Outline****Fall 2008**

**Instructor:** W. Robert Stephenson, 1407 Wilson Hall or 1127 HNSB  
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**Office Hours:** MTWTh 9:00 to 9:50, in 1127 HNSB  
 M 1:10 to 2:00, in 1407 Wilson  
 and by appointment

**Lecture:** MWF 10:00 to 10:50 Pearson 1106

**Laboratory:** T 2:10 to 4:00 Carver 205  
 Take home parts of lab assignments to be handed in the following Monday  
 in class.

**Text:** *A Second Course in Statistics: Regression Analysis*, 6<sup>th</sup> ed. by Mendenhall  
 and Sincich, Pearson/Prentice Hall, 2003.

Week Beginning	Material
Aug. 25	Sections 1.1, 1.2, 1.4, 1.5, 1.7, 1.8, 1.9
Sept. 1 <b>no class Sept. 1</b>	Chapter 2, Sections 3.1, 3.2
Sept. 8	Sections 3.3, 3.4, 3.5, 3.6
Sept. 15	Sections 3.7, 3.8, 3.9, 3.10, 3.12
Sept. 22	Sections 7.1, 7.2, 7.3, 7.6, 8.1, 8.2, 8.3
Sept. 29 ( <b>Exam 1 Sep. 30</b> )	Sections 4.1, 4.2, 4.3, 4.4
Oct. 6	Sections 4.5, 4.6, 4.7, 4.8
Oct. 13	Sections 4.9, 4.10, 4.11
Oct. 20	Sections 4.13, 4.14, 4.15, 7.4, 7.5, 8.4
Oct. 27	Sections 5.1, 5.2, 5.3, 5.4, 5.5
Nov. 3 ( <b>Exam 2, Nov. 4</b> )	Sections 5.6 through 5.12
Nov. 10	Sections 8.5, 8.6
Nov. 17	Sections 6.1 through 6.4
Nov. 24 <b>Thanksgiving Break</b>	
Dec. 1	Chapters 13, 14
Dec. 8	Chapter 16
Dec. 15 <b>Final Exam Week</b>	

**Point Distribution**

Exam 1 - September 30	100
Exam 2 - November 4	100
Final Exam - December 16, 9:45 to 11:45	125
Lab	75
Project (Simple Linear Regression)	60
Project (Multiple Regression)	40
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Total	500

## Course Information and Policies

- **Labs** provide an opportunity for a hands-on approach to the material covered in the lectures. Attendance is mandatory. You should bring your book, notes, and calculator. Lectures will focus on concepts, examples, and interpretations while labs will focus on the more mechanical aspects of our topics (some to be done by hand and some to be done via computer) as well as provide a chance for you to do statistics (rather than just hear about statistics.) Take home parts of lab assignments will be due in class on the Monday following the lab.
- **Exams** are scheduled during lab periods. If, for any reason, you cannot take an exam at the scheduled time and place with the rest of the class, you must contact me before the scheduled time. Each exam may involve a “take-home” component in addition to the in-class test; this will be announced in advance in class.
- **Formula sheets** (if necessary) will be provided for each exam.
- **Reserve materials** all handouts will be available on the course webpage.
- **Grading** will be given on a plus/minus scale.
- The **course web page** for STAT 401B is located at:  
[www.public.iastate.edu/~wrstephe/stat401.html](http://www.public.iastate.edu/~wrstephe/stat401.html)
- Iowa State University complies with the Americans with Disabilities Act and Sect 504 of the Rehabilitation Act. If you have a disability and anticipate needing accommodations in this course, please contact me within the first two weeks of the semester. You may feel more comfortable doing this during my office hours rather than before or after class. Retroactive requests for accommodations will not be honored. Before meeting with me, you will need to obtain a SAAR form with recommendations for accommodations from the Student Disability Resources Office, located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7220.

## Miscellaneous

- Most extensive calculations will be done by computer software; however, you will find it handy to have a calculator that can do some basic statistical calculations for you. If you are unsure about the appropriateness of your calculator for this class, then see me. You may not use a cell phone, PDA, or similar device as a calculator in this class. I recommend a calculator that can do two-variable statistics, but one that does only one-variable statistics is fine. Programmable calculators may be used, but any efforts to program definitions, text material, etc. into them for use on an exam will be considered academically dishonest and treated according to university policy. You are responsible for knowing how to operate your calculator. If you need some assistance, I may be able to help.
- Your active attendance at each class (listening, asking questions and participating in class activities) and your genuine effort on the labs (doing) are two of the most important factors affecting your success in this class. Statistics requires listening, participating, asking questions and doing. Feel free to ask me about problems, either in class or during office hours, after you have worked on them.