

Statistics 104 – Section C

Spring 2012

- Instructor:** Dr. Bob Stephenson
- Contact:** Phone: (515) 294-7805 email: wrstephe@iastate.edu
 section website: <http://www.public.iastate.edu/~wrstephe/stat104.html>
- Office Hours:** TTh 9:00 – 9:50 am, Snedecor 3111
 MWF 10:00 – 10:50 am, Snedecor 3111
 or by appointment
- Lecture:** TTh 8:00 – 8:50 am, 305 Carver
- Laboratory:** F 8:00 – 9:50 am, 3105 Snedecor
- Required Text:** *Statistics: The Art and Science of Learning from Data*, 2nd Edition, Alan Agresti and Christine Franklin, Pearson/Prentice Hall.
- Objectives:** The objective of the course is to have students develop an understanding of statistical thinking. By the end of the course students should be able to collect, display and summarize data, evaluate probabilities, and use statistical methods to reach informed decisions about questions arising from real world problems especially those in the agricultural and biological sciences.

Syllabus:

Tentative Dates		Material		Text	
T	Jan 10 –		What is Statistics?	Chapter 1	
Th	Jan 12	Th	Jan 19	Exploring Data	Chapter 2
T	Jan 24 –	Th	Feb 2	Association	Chapter 3
T	Feb 7 –	T	Feb 14	Gathering Data	Chapter 4
EXAM 1 – Friday, February 17				Chapters 1 – 4	
T	Feb 21 –	Th	Feb 23	Probability	Chapter 5
T	Feb 28 –	Th	Mar 8	Probability Distributions	Chapter 6
M	Mar 12 –	F	Mar 16	Spring Break	
T	Mar 20 –	T	Mar 27	Sampling distributions	Chapters 7
EXAM 2 – Friday, March 30				Chapters 5 – 7	
T	Apr 3 –	T	Apr 10	Estimation & Testing: Proportions	Sect. 8.1, 8.2, 8.4, 9.1, 9.2
Th	Apr 12 –	Th	Apr 19	Estimation & Testing: Means	Sect 8.3, 9.3, 9.4
T	Apr 24 –	Th	Apr 26	Comparing Two Groups	Chapter 10
FINAL EXAM		Tentatively scheduled for Monday, April 30 from 7:30 am to 9:30 am			

Course Information and Policies

- **Disability:** 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 Dr. Bob Stephenson, 3111 Snedecor Hall, 294-7805, wstephe@iastate.edu, within the first two weeks of the semester so that your learning needs may be appropriately met. Before meeting with Dr. Stephenson, you will need to obtain a Student Academic Accommodation Request (SAAR) form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7720.
- **Academic Dishonesty:** This class will follow Iowa State University policy on academic dishonesty found in the Iowa State University Catalog. A score of zero will be given for the entire assignment in which academic dishonesty occurs.
- **Exams:** In class exams will be given during the lab period. You will be able to use a calculator during exams. Formulas and tables needed for the exams will be provided.
- **Final Exam:** The final exam is **tentatively** scheduled for Monday, April 30th from 7:30 am to 9:30 am. **Do not make plans for summer break that conflict with your final exam schedule.**
- **Lab:** There is a weekly two-hour laboratory scheduled for each section. Labs provide the opportunity to actively experience statistical ideas discussed in lecture. Attendance at the lab is mandatory. In addition to doing the laboratory activities you can get help from the course instructor during lab. Bring your book, class notes and a calculator to the lab.
- **Homework:** Individual practice is an important part of learning. For this reason homework problems will be assigned throughout the semester. Homework assignments are due at the end of the period on the due date. **Late homework assignments will not be accepted.** At the end of the semester, the homework portion of the grade will be scaled to allow you to miss up to 10% of the total number of homework points possible without penalty.
- **Quizzes:** Be prepared to take a short quiz at any time during class or lab. Quizzes will not be announced, so you are encouraged to attend class and lab on a regular basis. Quizzes will be based on information presented in class, on labs and homework. **Make-up quizzes will not be given under any circumstances.** The quiz portion of your grade will be scaled at the end of the semester to allow you to miss up to 15% of the quiz points possible without penalty.
- **Computing:** Some labs and homework assignments will incorporate work on the computer using the statistical analysis package JMP. Detailed instructions will be provided with all computer assignments. Help with JMP is available in 1207 Snedecor Hall at the times posted. Be sure to allow enough time to complete the JMP assignments. It is your responsibility to allow for computer failures and/or difficulty finding a computer with the JMP software. JMP software can be downloaded to your personal computer for free. If you have questions about how to do this, go to the Solutions Center in Durham.
- **Project:** A project will be assigned during the semester. This project is intended to expose students to the collection and statistical analysis of data to solve real world problems. Students will work in groups. Specific details will be given later in the semester.
- **Grading:** Letter grades including plus/minus will be given based on performance on exams, labs, homework and the project. The point distribution is as follows:

Exam 1	100
Exam 2	100
Final Exam	125
Homework	60
Laboratory	40
Quizzes	25
Project	50
Total	500