

STAT 201: Elementary Statistics
Fall 2008, Sections 9 and 10

Class Meetings

Lectures: Wednesday and Fridays LeConte Room 210B (12:20-1:10 PM)
Labs: Section 9: Mondays in LeConte 200A, 12:20-2:15 PM
Section 10: Mondays in LeConte 205, 12:20-2:15 PM

Lecture Instructor Maureen Petkewich

Office: LeConte 217 Office Phone: 777-3291 Email: petkewic@stat.sc.edu Mailbox: LeConte 216
Office Hours: Wed/Fri 8:50-10:05 AM, 11:00-12:15 PM,
Tues 3-4 PM or by appointment

Lab Instructors

Section 9: Lalita Das daslalita@gmail.com
Section 10: Jinxin Gao gaousc@yahoo.com

Purpose To give students from throughout the university a non-calculus based introduction to the application of modern statistical methods including descriptive and inferential statistics. To show students that statistics is an important research tool. Minitab statistical software is used throughout the course.

Description Elementary Statistics (3 credit hours) (Prereq: MATH 111 OR 115 or STAT 110, or consent of department)
An introductory course in the fundamentals of modern statistical methods. Topics include descriptive statistics, probability, random sampling, simple linear regression, correlation, tests of hypotheses, and estimation.

Learning Outcomes Upon successful completion of this course, students should be able to:

- collect data using appropriate methods
- explore data with graphical displays and numerical summaries
- select and use appropriate statistical methods to analyze data
- develop and evaluate inferences and predictions that are based on data
- understand and apply basic concepts of probability

Textbooks

Statistics: The Art and Science of Learning from Data (2th ed.), by Agresti and Franklin, Pearson Education, Inc, 2009.
(Lecture) Note: Buy the bundled custom edition from a USC bookstore.

Course Packet (The course packet will be available at the first lab session or at Copy pickup INC., 1830 Rosewood Drive.)

Calculator: Each student will need a scientific calculator. Cell phone calculators are not permitted for use on exams.

Course Management System www.coursecompass.com. Course Compass is an online course management system where homework, notes and announcements will be posted. Course Compass will be demonstrated in class throughout the semester. See the last page of this syllabus for instructions on registering for Course Compass.

Attendance Attendance will be recorded for each class meeting (lectures and labs). Regular attendance is expected and a penalty for excessive absences will be imposed. The *University of South Carolina Undergraduate Studies Bulletin* (Web address: www.sc.edu/bulletin/ugrad/acadregs.html) states the following in regard to attendance: "Absence from more than 10 percent of the scheduled class sessions, whether *excused or unexcused*, is excessive and the instructor may choose to exact a grade penalty for such absences". For this class, absence from more than 4 class meetings will be considered excessive and a penalty will be imposed. For each day in excess of 4 days missed, 1% will be deducted from the student's final course average (percentage).

Computer Facilities You are encouraged to do as much of the computational work as possible using the statistical software package Minitab. Also, Minitab (on PC) is available through Science and Math (MathStat) for student use at the following campus locations: LeConte 124 and LeConte 303A. Check these locations for hours. An account will be set up for you to use these machines. Account information will be available at the first lab meeting. Please know your USC computer ID and your SSN.

Statistics Help Lab The Statistics Help Lab offers free tutoring center to all STAT 201 students. It is located in LeConte Room 215C and is staffed by STAT 201 lecture teachers and lab assistants. The open hours for the Statistics Help Lab will be announced early in the semester.

Honor Code and Student Conduct See the *Carolinian Creed* in the *Carolina Community: Student Handbook & Policy Guide*.

Student Disability Services If you qualify for accommodations because of a disability, please submit to me a letter from the Office of Student Disability Services prior to the first exam so that your needs may be addressed. The Office of Student Disability Services determines accommodations based on documented disabilities. Contact: 803-777-6142, LeConte 112A, and <http://www.sa.sc.edu/sds>

Grading

Exams (100 points each or about 17% each) Two in-class exams will be given on Monday, September 29 and Wednesday, November 5. Make-up exams will be considered only in extreme circumstances and **documentation will be required**. See me if you think your situation merits a make-up. Individual work is required on exams.

Final Exam (150 points or 25%) A comprehensive final exam will be given according to the University's exam schedule. Individual work is required on the final exam.

Homework (90 points or 15%) Homework testing the concepts taught in lecture class will be posted in Course Compass throughout the semester. Students will submit their answers online and receive feedback on responses. A date and time for closing each assignment will be announced in class and appear on each assignment. Some written homework problems from the textbook may also be assigned and collected. Expect 11 assignments worth 9 points each. The lowest homework grade will be dropped. Students may discuss the homework problems with each other but each student should submit their answers individually. A 30% penalty will be imposed on all late assignments and these will only be accepted up to 3 days after the due date. If you have technical difficulties with Course Compass, you must notify me 24 hours before the assignment is due to receive consideration for an extension.

Lab Quizzes (30 points or 5%) You will be given a short quiz at the beginning of eight of the ten labs, all but the first and last. Questions about concepts previously covered in lecture that are related to the lab will also be asked. Each quiz will be worth 5 points. The lowest two quiz grades will be dropped. **Students who arrive late to Lab will not be permitted to take the quiz.** Individual work is required on the lab quizzes.

Short Answer Writing Assignments – SAWA (80 points or about 13%) For 9 lab sessions, you will be required to complete a series of short answer questions to be collected. The final SAWA score will be adjusted to 80 course points. Each SAWA will be completed and turned in at the lab meeting. In the event that the lab runs long, the lab instructor may extend the assignment. The lowest SAWA grade will be dropped. If you miss a lab, then that is the lab that will be dropped. Students may work together in answering SAWA questions, but each student must turn in an assignment to receive credit.

Extended Writing Assignment – EWA (50 points or about 8%) For Lab Session 4, an extended writing assignment (EWA) will be assigned. This is a detailed technical writing report that discusses the Lab experiment, statistical methods, and results. Greater detail on this paper will be provided later. It is *very important* for you to attend this lab which is scheduled on September 22. The EWA is due on October 8. If you miss this lab, see me *immediately* to arrange to attend another lab meeting. A 25% penalty will be imposed on all late papers and these will only be accepted up to a week after the due date. Individual work is required on the EWA. Students may proof-read each other's papers, but original writing is required from each student.

Grading Scale:	Exam 1	100 points	A	540-600 points	(90-100%)
	Exam 2	100 points	B+	522-539 points	(87%-89.9%)
	Homework	90 points	B	480-521 points	(80%-86.9%)
	SAWA	80 points	C+	462-479 points	(77%-79.9%)
	EWA	50 points	C	420-461 points	(70%-76.9%)
	Lab Quizzes	30 points	D+	402-419 points	(67%-69.9%)
	<u>Final Exam</u>	<u>150 points</u>	D	360-401 points	(60%-66.9%)
	Total	600 points	F	<360 points	(<60%)

STAT 201: Elementary Statistics
Schedule for Fall 2008

Mondays		Wednesdays		Fridays	
Date	Material	Date	Material	Date	Material
				8/22	1.1,1.2
8/25	LAB1	8/27	2.1,2.2	8/29	2.3,2.4
9/1	Labor Day Holiday	9/3	2.4,2.5	9/5	3.1,3.2
9/8	LAB2	9/10	3.3,3.4	9/12	5.1,5.2
9/15	LAB3	9/17	5.3	9/19	5.4
9/22	LAB4	9/24	6.1	9/26	Review
9/29	EXAMI*	10/1	6.1	10/3	6.2
10/6	LAB5	10/8	6.2	10/10	Fall Break
10/13	6.3*	10/15	7.1	10/17	7.2
10/20	LAB6	10/22	7.3	10/24	8.1,8.2
10/27	LAB7	10/29	8.3	10/31	9.1
11/3	Review*	11/5	Exam II	11/7	9.1 (cont'd)
11/10	9.2*	11/12	9.3	11/14	9.4,9.5
11/17	LAB8	11/19	10.4	11/21	10.2
11/24	LAB9	11/26	Thanksgiving Break	11/28	Thanksgiving Break
12/1	LAB10	12/3	10.3	12/5	Review

*Note that on these Mondays, the class will meet for lecture instead of lab. The lectures on these Mondays will take place in LeConte, 210B from 12:20-1:10 as usual.
Schedule is subject to change.

Final Exam

Thursday, December 11 at 9:00 a.m.

To register for at www.coursecompass.com:

1. Click on **Register** under **Students** on the [CourseCompass](#) home page.
2. Click **Next** on the Before You Start page.
3. Enter your **course ID (petkewich09762)** and click **Find Course**.
4. Verify the course information and click **Access Code**.
5. Type your access code in the space provided. Your code is a series of six words separated by hyphens. Click **Next**.
6. Review the license agreement and click **I Accept**.
7. On the Access Information page, indicate whether you already have a Pearson account.
8. Click **Next**.
9. On the Account Information page, if you are creating a new Pearson account, enter the appropriate information in the fields provided:
 - a. Personal Information: Enter your first name, last name, and **an email address that you check regularly**.
 - b. School Location: Select your school's country from the drop-down list. If your school is in the U.S., enter the zip code (**29208 for USC**) or postal code. From the resulting drop-down list, select your school's name. If your school is not listed, select **Other**, and then enter your school name, city, and state.
 - c. Security Question: To ensure the privacy of your account, select a security question from the drop-down list and then enter the answer

If you already have an account, verify that the information in the prefilled fields is correct.

10. Click **Next**. Review the Confirmation & Summary page information. Print the page to keep a record of your login name, the email address used on your account, and your registration transaction information, in case you need to contact Customer Support. You will also receive an email message that contains your login name and password.

For Customer Technical Support, call Toll Free **1-800-677-6337**, Monday through Friday
9 AM – 6 PM EST.