Math 311 Fall 2012
Statistical Concepts and Methods

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Office Hours: MWF 11 - 11:50 AM, TTh 1 - 1:50 PM, and by appointment.

Course Goals: This course will introduce you to the basic ideas of descriptive and inferential statistics, and aims especially to make you a more intelligent consumer and evaluator of statistics. Since most of the statistics you will encounter will be generated by someone else, this is important! Topics include, but are not limited to: descriptive statistics, regression, inference, and analysis of two-way tables.

Required Text: Moore, D.S., McCabe, G.P., and Craig, B.A., *Introduction to the Practice of Statistics*, 6th edition, W.H. Freeman and Company.

Calculator: You will need a calculator that performs at least the standard scientific functions.

Evaluation and Grading: Grades will consist of five components: weekly quizzes and lab write-ups (30%), two midterm exams (20% each), and a comprehensive final exam *or* final project (30%). Tentative exam dates are Friday, October 12, and Friday, November 9. The final exam will be given on Wednesday, December 5, from 8 - 10 AM. You will have the option of replacing the final exam with a final project; more information will be provided on that later. Grades will be assigned according to the following scale:

		A	100-93%	A- 92.99-90%
B+	89.99-87%	B	86.99-83%	B- 82.99-80%
C+	79.99-77%	C	76.99-73%	C- 72.99-70%
D+	69.99-67%	D	66.99-63%	D- 62.99-60%
		F	59.99%	and below

General Course Policies: Daily attendance is expected and considered necessary for success. It is your responsibility to find out what was covered on days you were absent. Please bring your calculator to each class meeting. You are responsible for any announcements made in class regarding homework, exams, and quizzes. Handouts from class and homework assignments will be posted on Blackboard. Please note that Fridays are "lab days" where class will meet in the computer lab. You will have activities to do on these days using statistical software and write-ups based on these to hand in; see below.

All work handed in for the course must be written neatly, legibly, clearly, using correct mathematical notation, and with sufficient explanation. A good rule of thumb is to write your solution so that a classmate who knows roughly what's going on in the course but doesn't know how to do this particular problem can understand your solution. As a side benefit, this makes it much more likely that you will be able to understand your solution when you go back to study for exams or the final! The bottom line: for any written work handed in for the course, including lab write-ups, exams, and quizzes, *you must show your work*.

Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their "Confirmation of Eligibility for Academic Adjustments" from the Center for Disability Services as soon as possible so we can discuss how the approved adjustments will be implemented in class. Students without this form should contact the Center for Disability Services, Bouillon 205 or dssrecept@cwu.edu or 963-2171.

Work due during the last week of classes: We will be covering new material through the end of the last week of classes. There will be a quiz on Tuesday of that week, and there will be a write-up from the regular Friday lab due during finals week.

Homework: Homework will be assigned at the end of each class. It is expected that you will do the homework problems. To aid the battle against procrastination, questions about the previous day's homework, *and only the previous day's homework,* will be taken at the beginning of class each day. Of course, I will happily take any and all homework questions during office hours. Keeping up with the homework is one of the best things you can do to help yourself succeed in this course!

Quizzes and Lab Write-Ups: Quizzes will be given every Tuesday at the beginning of class, with the exception of the week following an exam. Quizzes will cover the material from the previous week (Monday - Friday). No make-up quizzes will be given, but to allow for unavoidable absences the lowest quiz score will be dropped. If you must miss a Tuesday class due to a school activity (e.g. class field trip or university-sponsored athletic event), that quiz can be excused if this is requested in advance and you supply me with a note from the instructor or advisor. Quizzes will be excused only for school-related activities.

The lab each Friday will include questions to be answered, including relevant statistical analyses. Your answers to these questions are due to me by Wednesday at 1:00 PM. *NO credit will be given for late work.* Electronic submissions will not be accepted without advance permission. Your solutions should be typed, written in complete sentences, and follow the general guidelines for written work given above.

Exams: Any changes to the tentative exam dates will be announced ahead of time in class. Make-up exams must be arranged ahead of time unless you can document an unexpected circumstance beyond your control that prevented you from taking the exam. For instance, in the case of illness, a doctor's note will be required. All make-up exams must be requested as early as possible. Exams requested more than 24 hours after the scheduled exam will be given only in extreme extenuating circumstances (e.g. hospitalization, jail . . .) The final exam will be given only at the scheduled final exam time.