

Course Syllabus - Math 311 - Spring 2011  
Statistical Concepts and Methods  
9:00 - 9:50AM / MTR Hertz 118 / WF Bouillon 103

Professor:	Dr. Jane Whitmire
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Phone - Office:	509-963-2268 Black Hall 225-32
Office Hours:	MTR 10:10-10:50 AM
Textbook:	Discovering Statistics
Author:	James S. Hawkes / William H. Marsh
Prerequisites:	Finite Mathematics / Math 130

### Course Description

This course is an introduction to statistical methods for analyzing data. The course is intended primarily for students in disciplines outside of mathematics who are seeking statistical tools for data analysis. After some experimental design issues and an introduction to graphical and numerical methods of exploratory analysis, the course will focus on probability distributions, relationships between variables, statistical inference through estimation, hypothesis testing, confidence intervals, categorical data, and linear regression.

### Calculators

Calculators may be used on homework, quizzes, and exams. When a calculator is used in solving a problem, it is the student's responsibility to correctly operate the calculator and to demonstrate an understanding of the solution by providing appropriate written detail. Exams will assume each student owns, brings, and uses a calculator comparable to a TI-83.

### Students are responsible for:

- (1) At least 2 hours homework and review for each class hour - or however long is necessary for understanding
- (2) Checking grades on Blackboard
- (3) Announcements made in class
- (4) Reading aligned textbook chapters before beginning assignments.
- (5) Completing assignments and lab reports by the due date and time.

### Homework

Daily homework will be assigned, but not collected. Assigned homework problems form the basis for quizzes and exams.

### Quizzes

Quizzes will be administered at random. Use each quiz as an aide to self assess understanding of homework material. To account for possible emergencies, the lowest quiz score will be dropped prior to finalizing the overall grade.

## **Attendance**

Daily attendance is expected and necessary for success. Bring the text and a calculator to each class meeting. You are responsible for any announcements made during class regarding homework, quizzes, and exams. One point will be deducted for each day of absence with a maximum of a 10 point reduction.

## **Labs**

Lab sessions will be held on Fridays. There will be 7 lab reports. Each lab report is due at the beginning of class, the following week. No late lab reports will be accepted under ANY conditions. To account for possible emergencies, the lowest lab score will be dropped prior to finalizing the overall grade.

## **Exams**

Three exams will be administered. Exam dates are Monday April 18, May 2, and May 23, 2011. Exams are comprehensive. Completing the exam in the time allotted is part of the exam. Taking an exam is an important part of the course. Nevertheless, scheduling complications sometimes occur. An alternate procedure for taking an exam due to a scheduling complication must be arranged in advance. No make-up exams will be given.

## **Final Exam**

The final MUST be taken to pass the course. The final is comprehensive. Completing the final in the time allotted is part of the final. The final exam for Spring 2011 is Monday June 6, 2011 from 2 pm to 4 pm. This is NOT the time scheduled by the university. If there is a time conflict, meet with the professor in advance to make arrangements to take the final at an earlier date and time.

## **Grading**

Everyone is graded the same way. NO EXCEPTIONS. Letter grades A/A-/B+/B/B-/C+/C/C-/D+/D/D-/F are based on a strict 93-100/90-92.9/87-89.9/83-86.9/80-82.9/77-79.9/73-76.9/70-72.9/67-69.9/63-66.9/60-62.9/BELOW 60 cutoff. Grades are not rounded either up or down.

HLS Homework	→	200
Exams	→	300
7 Labs	→	120
7 Quizzes	→	120
Final	→	250
Attendance	→	10

## **Special Needs Statement**

Students with disabilities who wish to set up academic adjustments in this class should provide a copy of their "Confirmation of Eligibility for Academic Adjustments". Eligible students without this form should contact the Disability Support Services Office by visiting Bouillon 205, emailing [dssreceipt@cwu.edu](mailto:dssreceipt@cwu.edu), or calling the phone number 509-963-2171.