Math 375 – Introduction to Statistics, Spring14

Instructor:	Dr. Hailin Sang
Office:	Hume Hall 325
Office hours:	M W 10:00-11:00 am
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COURSE INFORMATION:

Text:Statistics for Engineers and Scientists, 3rd edition, by William NavidiCourse website:http://connect.mcgraw-hill.com/class/math375_spring2014_sangTime/Place:M W F 8:00-8:50am; Hume 113

DESCRIPTION:

This course is an introduction to statistics for students in mathematics, engineering and computer science. We will cover the following topics: descriptive statistics, basic probability with coverage on Bayes rule and application to reliability analysis, random variables, common distributions including Binomial, Poisson, Exponential, Normal and t distribution, Central Limit Theorem, large/small sample confidence intervals and hypothesis tests, simple linear regression with emphasis on model diagnostic procedures. Statistical software R will be implemented for demonstration of statistical methods. One-semester calculus background is assumed.

LEARNING OBJECTIVES:

After completing this course, students enable to

- Understand basic probability concepts and probability models;
- Know which statistical method is appropriate given a typical problem;
- Apply statistical procedures to data and interpret results;
- Have familiarity with Statistical Software R;
- Enhance critical statistical thinking.

GRADE INFORMATION:

- Class attendance Attendance is mandatory.
- Homework There are 11 online assignments totally worth 30% of the course grade.
- Tests There are 2 midterm exams each counting for 20% and a final exam counting for 30%. The test dates are listed below. No make-up tests will be given except in cases of verified emergencies.

A 93-100%	A- 90-92%	B+ 87-89%	B 83-86%	B- 80-82%
C+ 77-79%	C 70-76%	D 60-69%	F below 60%	

ACADEMIC CONDUCT AND DISCIPLINE:

Students are expected to adhere to the University of Mississippi Creed and the Standards of Honesty as described in Policy Code ACA.AR.600.001 and written in the M Book. If you violate the Standards of Honesty, you will be reported and subject to the appropriate sanction which may include expulsion from the University.

Week/Date	Торіс	Activity
Week 1	Chapter 1: Sections 1.1-1.3	HW 1
Weeks 2-3	Chapter 2: Sections 2.1, 2.3, 2.4	HW 2, HW 3
Weeks 4-6	Chapter 3: Sections 4.1-4.3, 4.5, 4.7, 4.10, 4.11	HW4, HW5
March 3	Chapters 1-3	Midterm Exam 1
Weeks 7-8	Chapter 5: Sections 5.1-5.7	<i>HW6, HW7</i>
Weeks 9-11	Chapter 6: Sections 6.1-6.8	HW8, HW9
April 14	Chapters 5-6	Midterm Exam 2
Weeks 12-13	Chapter 7: Sections 7.1-7.4	HW10, HW11
Week 14	Review for final exam	
May 5, Monday@8:00am	Cover all chapters	Final Exam

TENTATIVE AGENDA: If changes are made, you will get advance notification in class.