

Introduction to Statistical Theory

(Dunn Hall 249, MW 12:40 pm-2:05 pm)

Instructor: Su Chen**Email:** su.chen@memphis.edu (email is the best way to contact me)**Office:** Dunn Hall 384 (Work Phone: 901-678-1145)**Office Hours:** MW 2:05 pm-3:15 pm or by appointment.**Prerequisite:** MATH 4/6635**Required Textbooks:** Probability and Statistical Inference, by Hogg and Tanis, *Eighth Edition*, Prentice Hall**Descriptions:** The primary objective of this course is to introduce the basic concepts of statistical inference. This course is about making decisions under uncertainty using statistical methods. The topics include the point estimate, confidence intervals and hypothesis testing of the population means and proportions, single and multiple linear regressions, one-way and two-way analysis of variance.**Grading Policy:** Grades will be calculated according to the following percentages:

Homework and Quizzes: 100 points	A = 90-100%
Exam 1: 100 points	B = 80-89%
Exam 2: 100 points	C = 70-79%
Class Participation and Note Summary: 50 points	D = 60-69%
Comprehensive Final Exam: 200 points	F = below 60%

Homework: Homework problems are posed online. The homework may be collected, and may be incorporated into a quiz or exam. You need to keep up with the assignments on your own. Being unable to do homework can result in low quiz or exam grades.**Quizzes:** The quizzes are open book and notes. There will be around 8~10 pop-up quizzes. The best FIVE quiz grades of all quizzes will comprise your total quiz grade, each worth 20 points. The quizzes problems all comes from the homework problems. Usually, you are given 15 minutes to finish the quiz in class. This is the time for you to show your homework. Make-up quizzes are NOT offered under any circumstance. Bring your calculator in each lecture in order to participate.**Examinations:** There will be two in-class exams, each worth 100 points, and a comprehensive final exam worth 200 points. You may bring ONE formula sheet (called note summary) of 8 1/2" by 11" paper to each test with HANDWRITTEN notes on both sides of the page. Exams will be announced at least one week in advance. The final exam is on Wednesday, May 6, 2015, 10:00 am-12:00 pm.

Note: Any questions regarding grading/scoring must be made within one week of the return of the exam or quizzes, otherwise no change in the grade will be made. (Final exam schedule: http://www.memphis.edu/registrar/calendars/exams/15s_final.php)

Make-up Policy: No make-ups will be given without written evidence of an official University excused absence. (See University Student Rules.) If no such notice is given, the rights to a make-up are forfeited. In addition (and also in accordance with University Student Rules), a written excuse must be presented upon return to class. Specifically, in the case of illness or injury, students are required to obtain a confirmation note from a health care professional affirming date and time of a medical office visit regarding the illness or injury.**Attendance:** I STRONGLY suggest that you make every attempt to not miss a single day of lecture. Falling behind in this course can be very detrimental to your grade. Attendance check will be given randomly in class.