

Thursday, May 21, 2009

## STAT 7010: Experimental Statistics II (Summer 2009) Course Syllabus

### Contact Information:

Instructor: Peng Zeng  
Office: 230C Parker Hall  
Phone: (334) 844 – 3680  
Email: zengpen AT auburn DOT edu  
Office Hour: 10:00am – 11:00am, Tuesday/Thursday or by appointment

### Time/Location:

11:15am – 1:10pm, Tuesday/Thursday, Parker Hall 352

### Course Website:

<http://www.auburn.edu/~zengpen/stat7010/>

### Contents:

Statistical design and analysis of experiments. Topics include simple comparative experiments, analysis of variance, block designs, latin squares, factorial designs, split-plot designs, random effects, etc. The SAS system. The majority audience are graduate students majoring in nonstatistical disciplines.

### Textbook:

D.C. Montgomery (2005). *Design and Analysis of Experiments* (6th Edition). Wiley.

### Prerequisite:

STAT 7000 or equivalent. Familiar with basic concepts in probability and statistics. Understand some statistical methods including *t*-test, one-way ANOVA, and simple linear regression.

### Homework/Exam:

Two midterm exams (30% + 30%), one project (10%), and one final exam (30%).  
A = (90, 100], B = (80, 90], C = (70, 80], D = (60, 70], F = [0, 60].

The two midterm exams are in-class and open-book exams (calculator is allowed, but no laptop). The final exam is a take-home exam (need to use SAS).

### Academic Dishonesty:

Suspicion of academic dishonesty and/or cheating will result in action by the University Honesty Committee. Refer to the *Tiger Cub* for more specific details.

### Students with Disabilities:

Students who need accommodations are asked to arrange a meeting with the instructor in the first week of classes, or as soon as possible if accommodations are needed.