Syllabus for STA 305/1004
"Experimental Design"

Instructors Prof. Fadu Craiu (lecturer) and Ximing Xu (Teaching Assistant)

When and Where Wednesdays 6-9pm in SS 2102

Textbook Design and Analysis of Experiments by Angela Dean and Daniel Voss.

Topics
1. Designs with one source of variation.
2. Complete randomized design.
3. Experiments with crossed treatment factors.
4. Complete randomized block designs.
5. Factorial designs.
6. Inferences for contrasts and means.
7. Checking model assumptions.
8. ANOVA and ANCOVA.
9. Sample size calculations.

Software We will use SAS to analyze some of the data in the textbook. All the data files are available online at: http://www.wright.edu/~dan.voss/bookdata/data.html

Marking The mark is based on 3-4 homework assignments (30%), one in-class midterm examination (30%) and one final examination (40%).

Policy You will be penalized 10% of the mark for EACH day of lateness after the due date of the assignment. If you miss the midterm, there will be no make-up examination. The weight of the midterm will be shifted to the final exam.
How your presentation will be evaluated:

Content [weight: 70%]

- Is there evidence that you understand your project, have made progress, have thought about what you still need to learn or do or issues to be resolved and have a clear plan?

Clarity [weight: 20%]

- Could the points of your presentation be easily understood by your classmates?
- Are you organized?

Delivery [weight: 10%]

- Was everything that you said easy to hear?
- Was your presentation style engaging?

Presentation order:

1. Felicity’s project
2. Denise’s project
3. Clara’s project
4. Joseph’s project
5. Shery’s project
6. Jura’s project
7. Stephanie’s project
8. Georgia’s project