STAT 481 – 18089, 19363 **Spring 2016**

Applied Statistical Methods II

- **Instructor:** Dr. Jing Wang

  Office: SEO 523
  Phone: (312) 996-4835
  E-Mail: jiwang12@uic.edu
  Web Page: www.math.uic.edu/∼wangjing

- **Lectures:** M W F at 1:00 - 1:50 p.m., Room LH 312

- **Office Hours:** 2:00-4:30 p.m. on Mondays, SEO 523

- **Textbook:** *Applied Statistics for Engineers and Physical Scientists, 3ed,* by Robert Hogg and Johannes Ledolter, Macmillan Publishing Company.
  Reference: *Applied Linear Statistical Models, 5ed*, by Kutner, Nachtsheim, Neter, and Li, 2005.

- **Dates of Exams:**

Midterm I	1 - 2 p.m., Wednesday, Feb. 17
Midterm II	1 - 2 p.m., Friday, March 18
Final Exam	1 - 3 p.m., Monday, May 2

- **Grading:** Homework 20%, midterms 40%, final 40%

- **Credits Scale:** 90% A , 75% B , 60% C , below 60% D

- **Note:** No late homeworks will be accepted for grading and no make-up exams will be given without valid excuses. Minimum two week advance notice for make-up exams is required.

- **Important Dates:**

January 11	Monday. Instruction begins.
January 18	Martin Luther King, Jr., Day holiday. *No classes.*
January 22	Friday. Last day to late register, last day to add a course.
February 19	Friday. Deadline for dropping courses (All colleges)
March 21–25	Spring vacation. *No classes.*
April 29	Friday. Instruction ends.
May 2	**Final Examinations**

Tentative Lecture Schedule - STAT 481

WEEK	BRIEF DESCRIPTION
01/11 - 01/15	Point Estimation; Sampling distribution; Confidence interval
01/18 - 01/22	*MLK Day*; Testing hypotheses; Level and Power; Chi-square tests
01/25 - 01/29	Goodness-of-fit tests; Nonparametric Rank Test
02/01 - 02/05	Simple linear regression
02/08 - 02/12	Inferences in regression models
02/15 - 02/19	*Review; Midterm I*
02/22 - 02/26	Adequacy of linear regression, Multiple regression
02/29 - 03/04	Complete randomized one-factor experiment
03/07 - 03/11	Other inferences in one-factor experiments
03/14 - 03/18	Randomized complete block designs, *Midterm II Exam and Review*,
03/21 - 03/25	No classes, spring break.
03/28 - 04/01	Randomized complete block designs, Latin squares,
04/04 - 04/08	Two-factor factorial designs
04/11 - 04/15	Nested factors and hierarchical designs
04/18 - 04/22	General factorial experiments, 2^k factorial experiments
04/25 - 04/29	*Final Exam Review*
05/02 - 05/06	Final Exam Week.

The instructor reserves the right to make any changes in the course she determines academically advisable. Changes will be announced in class. It is your responsibility to keep up with any changed policies.