

**STAT 401: Introduction to Probability**  
**Fall 2016**

**Lectures:** MWF: 11-11:50 am; Stevenson Hall 304

**Instructor:** Cheng Ouyang

Office: SEO 502

Office Hours: TBA (or by appointment)

Phone: (312)413-2153

Email: [couyang@math.uic.edu](mailto:couyang@math.uic.edu)

Personal course webpage: <http://www.math.uic.edu/~couyang/STAT401.html>

**Textbook:** Introduction to Mathematical Statistics, 7th edition, 2012, by R.V. Hogg, J.W. McKean, A.T. Graig.

**Course Content:**

Probability spaces, random variables and their distributions, conditional distribution and stochastic independence, special distributions, sampling distributions, limit theorems.

**Prerequisite:** Grade of C or better in MATH 210.

**Course Requirements**

1. Homework: Due on every Wednesday before class; half of the grade counts for completeness; half of the grade counts for correctness of one selected problem. Solutions (or hints) for difficult homework problems will be provided after each homework is collected.

Homework assignments and corresponding due dates for each week are posted on course webpage. No late homework will be accepted.

2. Quizzes: There is a 10-mins quiz every Friday except for the weeks with Midterms. Each quiz is based on homework problems and examples discussed in class in the previous week. No make-up quizzes.
3. Exams: There will be two midterm exams(in-class) and one final(in-class). All exam problems are based on homework assignments, quizzes and examples discussed in class. The dates are to be announced and will be available on the course webpage. No make-up exams.

**Grading:**

Grading: Homeworks 20%, Quiz 10%, Midterm 20% each, Final exam 30%.

Grading Scale: 90% A; 80% B; 65% C; 50% D

**Others**

1. Check the course webpage regularly.
2. Don't cheat! Any cheating will result in an F for the course. Also any academic dishonesty is considered as a serious offense at UIC. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the university.