# STAT 4202 Syllabus
# Introduction to Mathematical Statistics II
# Spring 2016

**Instructor:** Dr. Lo-Bin Chang
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**Office:** HH0180
**Office Phone:** 614-292-8876
**Class Times:** MWF 3:00PM-3:55PM
**Class Location:** Watts Hall 379
**Office Hours:** WF 3:55-4:55PM, other times by appointment

**TA:** Weiyi Xie (xie.61@osu.edu)
      Jieyi Jiang (jiang.435@osu.edu)

**Main Text:** *John E. Freund's Mathematical Statistics with Applications (8th edition) by Irwin Miller and Marylees Miller*

**Tentative Topics:**
Chapters 10, 11, 12, 13 and few sections from chapters 14, 15 and 16
would be covered; they encompass topics in Point Estimation, Interval Estimation, Hypothesis Testing, Regression and Correlation, and Nonparametric Tests.

**Prerequisites:** Stat 4201 (420), Math 4530 (530) or 5530 H (531 H).

**Website:** Homework and other relevant material will be posted on http://www.carmen.osu.edu. Please check the website regularly.

**Grading:** The final course grade will be based on the following weighting of assessment components:

> Homework quizzes (15%)
> Midterm I   (25%)
> Midterm II  (25%)
> Final Exam (35%)

**Homework quizzes:** Homework assignments will be posted on the course website or given in class, and there will be a short (20 minutes) quiz at the start of lecture on the day the homework is due. Homework will not be collected, and the quiz problem(s) will be taken directly from the homework. You are encouraged to discuss homework problems with other students. Your lowest quiz score will be dropped at the end of the semester, so missed quizzes cannot be made up for any reason.

**Exams:** All exams will be closed-book. The final exam will be cumulative, but will emphasize more on the recent material.

**Academic Misconduct:** You are expected to produce independent work for homework assignments and exams. Academic misconduct for any sort will not be tolerated. If students are caught indulging in dishonest activities during the exams, they will be reported immediately, without any exception. Please review OSU's policies at http://studentaffairs.osu.edu/csc/.

**Special Accommodation:** Students with ADA-documented physical, sensory, emotional or medical impairments may be eligible for reasonable accommodations. Veterans may also be eligible for services. All accommodations are coordinated through the Office of Disability Services (ODS) in Room 150 of the Pomerene Hall, (614) 292-3307. Please contact the ODS as early in the semester as possible. You can also contact the instructor privately to discuss your specific needs.

**Remark:** Since we cover the fundamental topics in statistics with rigorous mathematical treatments and various applications, the course fulfills along with the latest faculty agreed upon General Education Goals and Expected Learning Outcomes of Data Analysis:

Goals: Students develop skills in drawing conclusions and critically evaluating results based on data.

Expected Learning Outcomes:
1. Students understand basic concepts of statistics and probability.
2. Students comprehend methods needed to analyze and critically evaluate statistical arguments.
3. Students recognize the importance of statistical ideas.

**Note:** The above schedule and procedures in this course are subject to change in the event of extenuating circumstances.