

Course Syllabus
Math 252 – Mathematical Statistics

Schedule Number: 14544
Time: Tuesday 4:00 – 6:50
Room: Burkle 26

Instructor Information:

- Name: Andrew Loc Nguyen, Ph.D.
 - Office: South Math House
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 - Office phone:
 - Office Hours: Tuesday 3:00 – 3:50 and 7:00 – 7:30.
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Course Information:

- Text book: *Mathematical Statistics with Applications* by Dennis Wackerly, William Mendenhall III and Richard Scheaffer. Duxbury Advanced Series. Latest Edition.
- Pre-requisite: Math 251.
- Course Objective: This course will cover in depth the mathematics behind most of the frequently statistical tools such as point and interval estimation, hypothesis testing, good-ness of fit, ANOVA, linear regression. As a result, this is a highly theoretical course. As probability is the back bone of statistics, we'll start out with a quick, however extensive, review on probability. We then spend the rest of the semester to study the mathematics of these well known statistical methods.
- Course Elements: There will be weekly homework assignment, a midterm and a comprehensive final. Homework will be graded based on completeness and accuracy. Two lowest homework scores will be dropped. While group collaboration is encouraged, you should write your own solutions. Any form of academic dishonesty will result in a serious penalty. (See the University Policy on Academic Dishonesty.)
- Course Grade: Your course grade will be evaluated according to the following proportions:

Midterm	30%
Final	50%
Homework	20%.
- Make-up policies: There will be NO make up on any missed homework or exams. If you miss any homework, those will be the dropped ones. If you miss an exam with a serious and compelling reason, the score from the component of the final exam covering the materials of the missed exam will be the replacement.

Tentative Schedule:

Week 1	Gamma, Beta, 7.2	Week 9	10.3, 10.4, 10.5
Week 2	6.7, 8.2, 8.3	Week 10	10.6, 10.7, 10.8
Week 3	8.4, 8.5, 8.6	Week 11	10.9, 10.10, 10.11
Week 4	8.7, 8.8, 8.9	Week 12	Exam 2
Week 5	9.2, 9.3, 9.4	Week 13	11.2, 11.3, 11.4, 11.5
Week 6	Exam 1	Week 14	11.6, 11.7, 11.8, 11.9
Week 7	9.5, 9.6, 9.7	Week 15	11.10, 11.11 11.12, 11.14
Week 8	9.7, 9.8, 10.2	Week 16	Final