

**STA 3513-002 Fall 2000**  
**Probability and Statistics**  
**Time: TR 2:00 - 3:15 pm, Room: MS 2.03.08**

**Instructor:** Dr. Ming-Ying Leung  
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**Office Hours:** TR 10:30 am - 12 noon, or by appointment

**Course Objectives:** To provide students in the mathematical sciences with a foundation of probability theory and statistical concepts for applications in scientific and engineering research.

**Scope:** This course will introduce the axioms of probability, random variables, probability density functions, functions of random variables, important discrete and continuous random variables, the Central Limit Theorem, and sampling distributions

**Text:** "Probability and Statistics for Engineers and Scientists", 6th Edition, by Walpole, Myers and Myers.

**Prerequisite:** MAT 2213 - Calculus III

<b>Syllabus:</b>	Chapter 1	Introduction to Statistics and Data Analysis
	Chapter 2	Probability
	Chapter 3	Random Variables and Probability Distributions
	Chapter 4	Mathematical Expectations
	Chapter 5	Some Discrete Probability Distributions
	Chapter 6	Some Continuous Probability Distributions
	Chapter 7	Functions of Random Variables
	Chapter 8	Random Sampling and Sampling Distributions

**Grading:** There will be 10 homework assignments, at least 10 class exercises, two in class tests, and a final exam. They will contribute to your overall grade according to the following percentages.

Homework:	20%	(Due in class every Thursday except on test dates)
Class exercises:	10%	(Group work in class)
Test I:	20%	(In class Thursday, 10/5)
Test II:	20%	(In class Thursday, 11/9)
Final Exam:	30%	(Thursday, 12/14, 10:30 am - 1:15 pm)

**NO MAKEUP EXAM** will be given except for emergency or medical reasons. In such cases, the student should submit a written request accompanied by official documents to arrange for a makeup test. **Overdue assignments** will only be accepted for a good reason. However, the instructor reserves the right to discount part or all of the credit for any late homework.

**LAST DAY TO DROP** an individual course and receive a grade W is 10/27.

