

Syllabus for MA 421 Section 001, Spring 2019, Room 1108 SAS Hall, 3:00--4:15

1. Instructor: Jack W. Silverstein

Office: 4214 SAS Hall

Office Hours: Tues.-- Thurs. 1:25-2:55

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2. Goals and Objectives:

To provide students in mathematics, statistics, engineering, and the sciences with an understanding of probability theory as a mathematical subject, and how it can be used to model and analyze random phenomena.

3. Textbook:

A First Course in Probability, Tenth Edition by Sheldon Ross,
2018, Prentice Hall, ISBN-13: 978-0134753119

For price, call NCSU bookstore at 919-515-2161

4. Topics and estimated days allocated to each topic:

Chapter 1.	Combinatorial Analysis	(2 days)
Chapter 2.	Axioms of Probability	(3 days)
Chapter 3.	Conditional Probability and Independence	(4 days)
Chapter 4.	Random Variables	(4 days)
Chapter 5.	Continuous Random Variables	(4 days)
Chapter 6.	Jointly Distributed Random Variables	(4 days)
Chapter 7.	Properties of Expectation	(4 days)
Chapter 8.	Limit Theorems	(3 days)

Final exam given on Tues May 7, 1--4.

5. Tentative schedule of reading assignments

Students are expected to read sections of the text at the same time they are covered in class.

6. Tentative schedule of homework due dates, quizzes and tests

Homework is assigned almost every day.

Three exams, the date for each to be given over one week in advance.

7. Determination of grades: + and - system will be used.

Each of the three exams will count 25% each. The final exam will also count 25%.

The final average will determine middle C.

A and B ranges will be on an approximate 10 point basis, with + - set at the extremes of the cut-offs.

For students missing 5 or less days of class, their final average will be the larger of the averaged 4 exams and the final exam.

Attendance: Required