Office Hours: Before class (5-6), or by appointment as needed.

Textbook: Probability and Statistical Inference, 7th ed. by Robert Hogg and Elliot Tanis

Tentative Course Outline:
2. Chapter 2 - Discrete R.V.’s, Expectation, Bernoulli Trials, Moment Generating Function, Poisson R.V.
3. Chapter 3 - Continuous R.V.’s, Uniform, Exponential, Gamma, Chi-Square, Normal Distributions
4. Chapter 4 - Distributions of Two R.V.’s, Correlation, Conditional Distributions, Bivariate Normal Distributions
5. Chapter 5 - Functions of One Random Variable, Transformations of Two Random Variables, Several Independent Random Variables, M.G.F. Technique, Central Limit Theorem
6. Chapter 6 - (time permitting) Confidence Intervals

Grading Policy: Homework (25%), Midterm (35%), Final (40%)

Important Dates:
Midterm ..............................................10/16/19
Final Exam .........................................12/11/19

Class Policy:
• Homework is due before class via email. Homework must be legible, or I will ask you to resubmit it with the late penalty. 20% is taken off every day it is late.
• You are strongly recommended to not rely on a solutions manual for the homework. It will lead to poor performance on the exams.
• Participation is factored in, but can only help you.
• You are strongly recommended to try all items marked ”HW” in class, as one of these will be randomly selected for the exam.

Supplemental Texts:
1. Problem-Solving Methods in Combinatorics, by Pablo Soberon Bravo
2. Real Analysis for Graduate Students, 2nd Ed., by Richard F. Bass