

APPM 4520/5520 COURSE SCHEDULE (TENTATIVE)

**Instructor:** Brian Zaharatos  
**Office:** ECOT 338  
**Office Hours:** Tues: 9:45am to 11:15am; Wed: 3:00pm to 4:30pm; **or** by appointment  
**Email:** [brian.zaharatos@colorado.edu](mailto:brian.zaharatos@colorado.edu)

1.*An Introduction to Mathematical Statistics* by J.N. Corcoran (pdf provided).

2.*Statistical Inference*, Second Edition by George Casella and Roger L. Berger **(Optional)**

Week	Date	Unit	Topic	Reading Due	Assignment Due
1	Mon, Aug 27, 2018	Intro/Probability Review	Sample Space, Events, Sigma Algebras, Prob. Axioms		
	Wed, Aug 29, 2018	Probability Review	Probability Theorems/ Conditional Probability	Corcoran: Ch. 0.1-0.4	
	Fri, Aug 31, 2018	Probability Review	RVs, PDFs, CDFs, Expectation, and Variance	Corcoran: Ch. 0.5-0.7, 0.10	
2	Mon, Sep 3, 2018	No Class	No Class	No Class	
	Wed, Sep 5, 2018	Probability Review	Joint PDFs, Marginals, and Independence	Corcoran: Ch. 0.8-0.9	
3	Fri, Sep 7, 2018	Important Probability Tools for Statistics	Distributions of Transformations of RVs	Corcoran: Ch. 1.1-1.3	<b>Homework #1 Due</b>
	Mon, Sep 10, 2018	Important Probability Tools for Statistics	Distributions of Transformations of RVs	Corcoran: Ch. 1.4	
	Wed, Sep 12, 2018	Important Probability Tools for Statistics	Distributions of Transformations of RVs	Corcoran: Ch. 1.4	
4	Fri, Sep 14, 2018	Important Probability Tools for Statistics	Distributions of Minima and Maxima	Corcoran: Ch. 1.5	<b>Homework #2 Due</b>
	Mon, Sep 17, 2018	Important Probability Tools for Statistics	Distributions of Minima and Maxima	Corcoran: Ch. 1.5	
	Wed, Sep 19, 2018	Important Probability Tools for Statistics	Moment Generating Functions	Corcoran: Ch. 1.6	
5	Fri, Sep 21, 2018	Important Probability Tools for Statistics	Moment Generating Functions	Corcoran: Ch. 1.6	<b>Homework #3 Due</b>