Math/Stat 394 Winter 2019 Schedule

Week 1	M	Introduction Birthday Problem
Jan 7, 9, 11	W	Permutations and Combinations Appendix C
	F	Binomial Coefficients Appendix D
Week 2	М	Sec. 1.1 Sample Space, Axioms of Probability
Jan 14, 16, 18	W	Sec. 1.2, 1.3 Random Sampling, Infinitely many Outcomes
		Homework (HW) 1 due
	F	Sec. 1.4 Inclusion-Exclusion Principles
Week 3	Μ	MLK Day
Jan 21, 23, 25	W	Sec. 1.5 Random Variables
	F	Sec. 2.1 Conditional Probability HW2 due
Week 4	Μ	Sec. 2.2, 2.3 Bayes' Formula, Independence
Jan 28, 30, Feb 1	W	Sec. 2.3 Independence, Independent Random Variables HW 3 due
	F	Sec. 2.4 Independent Trials, Binomial and Geometric Distributions
Week 5	Μ	canceled due to snow
Feb 4, 6, 8	W	Sec. 3.1 Probability Distributions, Probability Densities,
	F	Sec. 3.2 Cumulative Distribution Functions, Uniform[a,b] HW 4 due
Week 6	Μ	canceled due to snow
Feb 11, 13, 15	W	canceled due to snow
	F	Midterm
Week 7	М	Presidents Day
Feb 18, 20, 22	W	Sec. 3.3 Expectation
	F	Sec. 3.4 $E(g(X))$, Linearity of Expectation, Variance HW 5 due
Week 8	М	Sec. 3.4 Variances for binomial, geometric, uniform, MSE, MAD
Feb 25, 27, Mar 1	W	Sec. 3.5 Normal Distribution HW 6 due
	F	Sec. 4.1 Normal Approximation
Week 9	М	Sec. 4.3 Applications of Normal Approximation,
		Sec. 4.4 Poisson Distribution
Mar 4, 6, 8	W	Sec. 4.4 Poisson Approximation,
		Sec. 4.5 Exponential Distribution HW 7 due
	F	Sec. 4.3 Exponential Approximation To Geo(p) Sec. 5.2 Distribution of $g(X)$
III 10	М	More Examples for Distribution of $g(X)$
Week 10		
Week 10 Mar 11, 13, 15	W	Sec. 9.1 Markov's and Chebychev's Inequality
	W	Sec. 9.1 Markov's and Chebychev's Inequality Sec. 9.2 Weak Law of Large Numbers HW 8 due