

Day #	Date	Modality	Topic	Textbook Sec.	HW due
1	M 1/31	Zoom	Introduction, Permutations, Combinations	1.3, 1.4	
2	W 2/2	Asynchronous	Binomial, multinomial coeff., integer solutions	1.4, 1.5, 1.6	Mock HW
3	M 2/7	In person	Equally likely outcomes, Basic Prop., Poker hands	2.1-2.5	
4	W 2/9	In person	Basic Prop., Inclusion-exclusion, Matching problem	2.1-2.5	HW1
5	M 2/14	Asynchronous	Conditional probability	3.2	
6	W 2/16	Asynchronous	Bayes' Formula, Monty Hall and other problems	3.2, 3.3	HW2
	M 2/21		Presidents' day (no classes)		
7	W 2/23	Asynchronous	Independent events, Bernoulli processes	3.4	HW3
8	M 2/28	Asynchronous	Points problem and Gambler's Ruin Problem	3.4	
9	W 3/2	In person	Random variables, expected value	4.1, 4.2, 4.3, 4.4	HW4
10	M 3/7	In person	Variance and Covariance	4.4, 4.5, 7.4	
11	W 3/9	Asynchronous	Bernoulli and Binomial Random Variables	4.6	HW5
12	M 3/14	Asynchronous	Poisson random variables	4.7	
13	W 3/16	In person	Continuous random variables	5.1, 5.2	HW6
14	M 3/21	In person	Uniform and normal distributions	5.3, 5.4	
15	W 3/23	Asynchronous	Exponential random variable, hazard rate	5.5	HW7
16	M 3/28	Asynchronous	Pdf of $g(X)$, lognormal and Pareto random variables	5.6, 5.7	
17	W 3/30	In person	Jointly distributed random variables	6.1	HW8
18	M 4/4	In person	Geometric problems, independent random variables	6.1, 6.2	
19	W 4/6	Asynchronous	Sums, Expectation of sums, random walk	6.3, 7.2	HW9
20	M 4/11	Asynchronous	Moment generating functions, Conditional Expectation	7.5, 7.7	
21	W 4/13	In person	Chebyshev, Law of Large numbers, Central Limit Thm	8.2, 8.3	HW10
			Spring Break (no classes)		
22	M 4/25	In person	Using the Central Limit Theorem	8.3	
23	W 4/27	Asynchronous	Strong Law of Large numbers	8.4	HW11
24	M 5/2	Asynchronous	Markov chains	9.2	
25	W 5/4	In person	Coding and Shannon entropy	9.3, 9.4	HW12
26	M 5/9	Asynchronous	Simulating random variables	10.1, 10.2, 10.3	
27	W 5/11	In person	Review 1	(all)	
28	M 5/16	In person	Review 2	(all)	
	W 5/18	In person	FINAL EXAM		

All in person activities will be held at Gillet Hall, Room 305, 11:00am - 12:40pm