

Week	Date	Topic	Homework Problems	
1	8/26	Counting	[2.2] 1-20, 22-26	
	29	Permutations	[2.3] 1-26 [2.5] 1	
	31	Combinations	[2.4] 1-8, 13-16, 18, 19, 26, 29, 34, 35	
	9/2	More Combinations	[2.4] 9-12, 17, 21, 23, 27, 30, 32, 39-43, 49	
	5	LABOR DAY		
	7	Poker Probabilities	Poker Worksheet	
	9	QUIZ #1: Combinatorial Probability		
	12	Axioms and Basic Theorems	[1.3] 1-4, 7-12, 14-16, 21, 24, 27-29	
	14	Conditional Probability	[3.1] 1-8, 12-15, 19, 23 [3.2] 1-6, 9	
	16	Bayes' Theorem	[3.3] 1-4, 6-9, 12, 15 [3.4] 1-10, 12, 14, 15	
	19	Independence	[3.5] 1-17, 20-23, 25-31	
	21	REVIEW [1] 4-12, 17 [2] 1-10, 16-20, 22-24 [3] 1-11, 13-15		
	23	TEST #1: Conditional Probability		
	2	26	Discrete Random Variables	[4.3] 1-11
		28	Expected Value	[4.4] 1-8, 10, 13, 14, 18
30		Variance	[4.5] 1-5, 7, 8, 13	
10/3		Binomial Distribution	[5.1] 1-6, 11-15, 18-20, 24-26	
5		Poisson Distribution	[5.2] 1-16, 19, 25, 26a, 27	
7		Other Discrete Distributions	[5.3] 1, 3-16, 21, 22ab	
10		QUIZ #2: Discrete Distributions		
12		Continuous Random Variables	[4.2] 5, 9-13, 19 [6.1] 1-11	
14		FALL BREAK		
17		Expected Value and Variance	[6.3] 1, 2, 4-6, 8-13, 15, 17ab, 18, 21	
3	19	Functions of Random Variables	[6.2] 1-8	
	21	Uniform and Exponential	[7.1] 1-3, 6, 9, 10, 12, 14 [7.3] 1-8, 14	
	24	Normal Distribution	[7.2] 1-20, 23, 24, 30, 33	
	26	Gamma Distribution	[7.4] 1-9	
	28	REVIEW [4] 1-3, 5, 7 [5] 1-5, 7, 9-12, 15-17, 23, 26 [6] 1-12 [7] 1-6, 8-16		
	31	TEST #2: Continuous Distributions		
	11/2	Joint Distributions	[8.1] 1-7, 9-13, 17-19	
	4	Independent Random Variables	[8.2] 1-4, 6, 8-13, 21, 23	
	7	Conditional Distributions	[8.3] 1-7, 18, 19	
	9	Functions of Two Variables	[8.4] 1-4, 6-8, 10	
11	Order Statistics	[9.2] 1-3, 6-9		
4	14	QUIZ #3: Joint Distributions		
	16	Expected Values of Sums	[10.1] 3, 5, 6, 11-14	
	18	Covariance and Correlation	[10.2] 1-3, 5-12, 14, 18, 19, 21 [10.3] 1, 2, 5, 6	
	21	Moment Generating Functions	[11.1] 1-9, 11-15, 18, 20-22	
	23	THANKSGIVING BREAK		
	25	THANKSGIVING BREAK		
	28	Sums of Random Variables	[11.2] 1-5, 10-12, 15	
	30	Laws of Large Numbers	[11.3] 1-3, 5, 6, 8, 9 [11.4] 1-5	
	12/2	Central Limit Theorem	[11.5] 1-8	
	5	REVIEW [8] 1-4, 7-10, 13, 15, 18 [10] 1-4, 6-8, 12 [11] 1-7, 15-19		
5	7	TEST #3: Limit Theorems		
	9	REVIEW FOR FINAL		
	14	FINAL EXAM (9:00–11:00 am)		