

	Tentative schedule for STAT 345/445 - Updated regularly!			8/26/24
Week	Date	Lecture Topics	Read sections	Homework
1	27-Aug	Introduction, Set Theory	1.1	
	29-Aug	Fundamentals of Probability Theory	1.2.1, 1.2.2	
2	3-Sep	Counting	1.2.3, 1.2.4	
	5-Sep	Conditional probability and Independence	1.3	HW1
3	10-Sep	Random Variables and distr. Functions	1.4 - 1.5	
	12-Sep	Density and mass functions	1.6	HW 2
4	17-Sep	Functions of a random variable	2.1	
	19-Sep	Functions of a random variable and expected values	Quiz 1 (30 min) 2.1, 2.3	
5	24-Sep	Moments and moment generating functions	2.3	
	26-Sep	Differentiating under an integral sign	2.4	HW 3
6	1-Oct	Common discrete families	3.1-3.2	
	3-Oct	Common discrete families	Quiz 2 (30 min) 3.2	
7	8-Oct	Common continuous families	3.3	
	10-Oct	Common continuous families	3.3	HW 4
8	15-Oct	Exponential families. Location and scale families.	3.4-3.5	
	17-Oct	Midterm Exam (75 min)		
9	22-Oct	Fall Break		
	24-Oct	Location and scale families. Chebtshev's inequality	3.4-3.5, 3.6.1	
10	29-Oct	Multiple random variables	4.1	
	31-Oct	Joint, marginal and conditional distributions	4.1-4.2	HW 5
11	5-Nov	Conditional distributions and independence	4.2	
	7-Nov	Bivariate transformations.	Quiz 3 (30 min) 4.3	
12	12-Nov	Hierarchical models	4.4	
	14-Nov	Covariance and correlation, $n > 2$	4.5, 4.6	HW 6
13	19-Nov	Random samples	5.1	
	21-Nov	Sums of random variables	5.2	HW 7
14	26-Nov	Sampling from the normal distribution	Quiz 4 (30 min) 5.3	
	28-Nov	Thanksgiving Break		
15	3-Dec	Order Statistics	5.4	
	5-Dec	Order Statistics	5.4	HW 8

Final exam Tuesday December 17, 2023