

APPROXIMATE SCHEDULE, SUBJECT TO CHANGE

MATH 451, Spring 2020

No.	Date	Day	Topics	Book	Homework	Due
1	Jan 23	R	Sets, set operations, disjoint, partitions	Leemis 1.1, 1.3	PS1	Jan 30
2	Jan 28	T	Power sets, sample space, outcomes, events Prob fn defn, Kolmogorov axioms, examples	Leemis 2.1, 2.2		
3	Jan 30	R	Basic theorems, Boole's ineq, event partitioning, equally likely outcomes	Leemis 2.1, 2.2	PS2	Feb 6
4	Feb 4	T	Ordered counting	Leemis 1.2, 2.3		
5	Feb 6	R	Unordered Counting	Leemis 1.2, 2.3	PS3	Feb 13
6	Feb 11	T	Conditional Prob., Compound, bayes,	Leemis 2.4, 2.5		
7	Feb 13	R	Independence, Mutual Independence, Pairwise independence	Leemis 2.6	PS4	Feb 20
8	Feb 18	T	Random Vars, Distribution Functions	Leemis 3.1-3.3		
9	Feb 20	R	Midterm 1 (covering lectures 1-7) IN CLASS		PS5	Feb 27
10	Feb 25	T	PMF and PDF	Leemis 3.1-3.3		
11	Feb 27	R	PDFs, Expectation	Leemis 3.4	PS6	Mar 5
12	Mar 3	T	Expectation, Moments and MGFs	Leemis 3.4, 3.5		
13	Mar 5	R	Bern/Bin, Uniform, Normal,	Leemis Ch 4 & 5	PS7	Mar 19
			Spring Break			
14	Mar 17	T	Normal, Gamma, Poisson, Geometric	Leemis CH 4 & 5		
15	Mar 19	R	Geometric, Beta, inequalities	Leemis CH 4 & 5	PS8	Mar 26
16	Mar 24	T	Transformations	Leemis 7.1, 7.2 (Beginning)		
17	Mar 26	R	Transformations, Bivariate Random Variables	Leemis 6.1	PS9	Apr 2
18	Mar 31	T	More Bivariate RVs	Leemis 6.3		
19	Apr 2	R	Midterm 2 (covering lecture 8-17) IN CLASS		PS10	Apr 9

20	Apr 7	T	Bivariate Expectation, Cov, Cor,	Leemis 6.3		
21	Apr 9	R	Conditional and Indep RVs, Conditional Expectation, Variance, Independence	Leemis 6.2,6.4	PS11	Apr 16
22	Apr 14	T	Expectation and Independence, Bayes, Total Probability,	Leemis 6.2, 6.4		
23	Apr 16	R	Iterated Expectation, Bivariate Normal	Leemis 6.3	PS12	Apr 23
24	Apr 21	T	Bivariate Transformations	Leemis 6.3		
25	Apr 23	R	More on Bivariate Transformations, Convolutions	Leemis 6.3	PS13	Apr 30
26	Apr 28	T	Multivariate Random Variables, Examples, Multivar normal, Expectation, Transformation,	Leemis 6.5		
27	Apr 30	R	Random samples, order statistics,	Leemis 8.1,8.2		
	May 4	R	Final Exam 7-10pm			