

Day	Date	Topic	Text	Assignment
MON	5/21	1. Class description and logistics, Set theory	1.1	
TUE	5/22	2. Probability Axioms and Probability Laws	1.1, 1.2	
WED	5/23	3. Combinatorics	1.2, 1.6	
THU	5/24	4. Combinatorics	1.6	HW 1 due
FRI	5/25	5. Conditional probability, Independence	1.3, 1.4	
SAT	5/26			
SUN	5/27			
MON	5/28	No Class, Memorial Day		
TUE	5/29	6. Law of Total Probability, Bayes theorem	1.4, 1.5	
WED	5/30	7. Conditional Independence, Discrete random variables	2.1, 2.2	HW 2 due
THU	5/31	8. Discrete random variables	2.1, 2.4	
FRI	6/1	9. Expectation, Variance	2.3, 2.4	HW 3 due
SAT	6/2			
SUN	6/3			
MON	6/4	10. Variance, Joint distributions (Discrete)	2.4, 2.5	
TUE	6/5	11. Joint distributions (Discrete)	2.6, 2.7	
WED	6/6	12. Conditioning (Discrete)	2.7, 4.2	HW 4 due
THU	6/7	Review		
FRI	6/8	Midterm		Midterm
SAT	6/9			
SUN	6/10			
MON	6/11	13. Continuous random variables	3.1, 3.2	
TUE	6/12	14. Continuous random variables	3.1, 3.3	HW 5 due
WED	6/13	15. Joint PDFs (Continuous)	3.4	
THU	6/14	16. Joint PDFs, Conditioning (Continuous)	3.5	HW 6 due
FRI	6/15	17. Derived distributions, Convolution	4.1	
SAT	6/16			
SUN	6/17			
MON	6/18	18. Moment Generating Functions	4.4	
TUE	6/19	19. Concentration Inequalities, Law of Large Numbers	5.1, 5.2, 5.3	HW 7 due
WED	6/20	20. Convergence in Distribution, Central Limit Theorem	5.4	
THU	6/21	21. More Limit Theorems		HW 8 due
FRI	6/22	22. Markov Chains	7.1	
SAT	6/23			
SUN	6/24			
MON	6/25	23. Markov Chains	7.4	
TUE	6/26	24. Markov Chains	7.2, 7.3	
WED	6/27	25 Markov Chains		HW 9 Due
THU	6/28	Review		
FRI	6/29	Final Exam		Final Exam