

Unless otherwise stated, all homework will be due at the beginning of the following class.

Date	Topic	Homework
8/25	Section 0 - Review of Algebra and Calculus	HW (not collected) Problem Set 0: pp.25-28 #1-15
8/27	Section 1 - Basic Probability Concepts	HW 1 Problem Set 1: pp.49-50 #1-7
9/1	Section 2 - Definition of Conditional Probability, Independent Events	HW 2 Problem Set 2: pp. 71-78 #1-9, 15, 21, 24, 26, 27
9/3	Section 2 - Bayes' Rule, Bayes' Theorem, and the Law of Total Probability	HW 3 Problem Set 2: pp.73-77 #10-14, 16-20, 22, 23, 25
9/8	Section 3 - Combinatorial Principles	HW 4 Problem Set 3: pp.103-105 #1-11
9/10	Section 4 - Random Variables and Probability Distributions, Independent Random Variables	HW 5 Problem Set 4: pp.127-130 #1-4, 7, 8, 13, 16
9/15	Section 4 - Conditional Distribution, Maximum of Independent Random Variables	HW 6 Problem Set 4: pp.127-130 #5, 6, 9-12, 14, 15, 17
9/17	Review for Midterm Exam 1	
9/22	Midterm Exam 1	
9/24	Review Midterm Exam	
9/29	Section 5 - Expected Value; Percentiles, Median, and Mode	HW 7 Problem Set 5: pp.153-156 #1-6, 8, 16, 17, 22, 25
10/1	Section 5 - Variance and Standard Deviation; Chebyshev's Inequality	HW 8 Problem Set 5: pp.154-158 #7, 9, 11, 20, 21, 23, 24, 26, 27
10/6	Section 5 - Moments of a Random Variable, Moment Generating Function	HW 9 Problem Set 5: pp.155-157 #10, 12-15, 18, 19
10/8	Section 6 - Discrete Uniform Distribution, Binomial Distribution, Geometric Distribution, Multinomial Distribution	HW 10 Problem Set 6: pp.181-185 #1-6, 10-13, 15-17, 20, 22, 23
10/13	Fall Break 10/12-10/13	
10/15	Section 6 - Poisson Distribution, Negative Binomial Distribution, Hypergeometric Distribution	HW 11 Problem Set 6: pp.182-186 #7, 9, 14, 18, 19, 21, 24, 25-27
10/20	Section 7 - Continuous Uniform Distribution, Exponential Distribution	HW 12 Problem Set 7: pp.211-214 #1-5, 9, 12-15 Problem Set 6: p. 182 #8
10/22	Section 7 - Normal Distribution, Gamma Distribution	HW 13 Problem Set 7: pp.212-214 #6-8, 10, 11, 16-18
10/27	Section 8 - Joint Distributions, Marginal Distributions	HW 14 Problem Set 8: pp.243-254 #2-5, 7, 10, 12, 13, 18, 24, 26-30, 32, 36, 49
10/29	Section 8 - Independence of Random Variables, Conditional Distributions	HW 15 Problem Set 8: pp.243-254 #1, 6, 8, 9, 15, 17, 19, 20, 25, 31, 34, 48
11/3	Section 8 - Covariance and Correlation Between Random Variables	HW 16 Problem Set 8: pp.245-253 #11, 14, 16, 21-23, 33, 35, 37-47
11/5	Review for Midterm Exam 2	

11/10	Midterm Exam 2	
11/12	Review Midterm Exam 2	
11/17	Section 9 - Transformations of Random Variables	HW 17 Problem Set 9: pp.289-292 #1, 3-6, 10-12, 16
11/19	Section 9 - Order Statistics, Mixtures of Distributions	HW 18 Problem Set 9: pp.290-297 #9, 13-15, 17, 18, 21-26, 31, 33, 36-41
11/24	Section 9 - Review	HW 19 Problem Set 9: pp.290-296 #2, 7, 8, 19, 20, 27-30, 32, 34, 35
11/26	Thanksgiving Break 11/25-11/28	
12/1	Section 10 - Risk Management Concepts	HW 20 Problem Set 10: pp.325-335 #1, 3-6, 8, 16, 18, 20, 21, 23, 26, 27, 31, 38-40
12/3	Section 10 - Review	HW (not collected) Section 10: pp.325-335 # 2, 7, 9-15, 17, 19, 22, 24, 25, 28-30, 32-37
12/8	Review for Final Exam	
12/10	Review for Final Exam	
	Final Exam Time: 8:00am Thursday, December 17th Location: UNIV 003	