COURSE OUTLINE: The following should only be used as a guideline. It is subject to change

Lecture	Date	Topic/Textbook Section
1	08/25	Introduction and Syllabus, 1.1: Probabilities as Proportions
2	08/27	1.2: Exact Calculation and Bounds 1.3: Fundamental Rules
3	08/30	2.1: The Chance of an Intersection
4	09/01	2.2: Symmetry in Simple Random Sampling 2.3: Bayes Rule
5	09/03	2.4: Uses and Interpretations 2.5: Independence
6	09/08	3.1: Success and Failure 3.2: Random Variables
7	09/10	3.3: Binomial Distribution 3.2: Hypergeometric Distribution
8	09/13	3.4: Examples
9	09/15	4.1: Cumulative Distribution Functions
10	09/17	4.2: Waiting Times – Negative Binomial Distribution
11	09/20	4.3: Exponential Approximations 4.4: Poisson Distributions
12	09/22	5.1: Definition 5.2: Functions of Random Variables
13	09/24	5.2: Functions of Random Variables cont. 5.3: Methods of Indicators
14	09/27	5.3: Unbiased Estimators
15	09/29	5.5: Conditional Expectation 5.6: Expectation by Conditioning
16	10/01	6.1: Variance and Standard Deviation 6.2: Simplifying the Calculation
17	10/04	6.3: Markov's Inequality 6.4: Chebyshev's Inequality_
Midterm Review	10/06	
Midterm	10/08	
18	10/11	7.1: Sum of Independent Random Variables
19	10/13	7.2: Sampling without Replacement 7.3: Law of Averages
20	10/15	8.1: Distribution of the Sample Sum (and the Sample Mean)
21	10/18	8.2: Standard Normal Curve
22	10/20	8.3: Normal Approximation 8.4: How Large is Large
23	10/22	9.1: Testing Hypotheses
24	10/25	9.2: A/B Testing: Fisher's Exact Test
25	10/27	9.3: Confidence Intervals: Method
26	10/29	9.4: Confidence Intervals: Interpretation
27	11/01	10.1: Density 10.2: Expectation and Variance
28	11/03	10.3: Exponential Distribution
29	11/05	10.4: Normal Distribution
30	11/08	11.1: Bias and Variance Section 11.2: The German Tank Problem
31	11/10	11.3: Least Squares Regression
32	11/12	11.4: Bounds on Correlation
33	11/15	11.5: The Error in Regression
34	11/17	12.1: The Simple Linear Regression Model
35	11/19	12.1: The Simple Linear Regression Model cont.
36	11/22	12.2: The Distribution of the Estimated Slope
37	11/29	12.3: Towards Multiple Regression
38	12/01	To be Decided
39	12/03	To be Decided
Final Review	12/06	
Final Review	12/08	
Final Review	12/10	