

## Probability and Statistics Tentative Calendar–Fall 2025

Below is a *tentative* calendar for Prob & Stat. It includes the section(s) that will be covered each day, along with the homework that goes with each. (Problems are to be *started* on this day.) It will be to your advantage to skim the section before class—don’t worry if you do not understand it; that is the point of class.

Date	Topics	Textbook Homework	Due Dates
W Aug 27	1.1: Properties of Probability	1-3, 6-7, 10-13	
F Aug 29	1.2: Enumeration	5, 7, 9, 11, 17	
M Sep 1	<b>Labor Day</b> – no class		
W Sep 3	1.3: Conditional Probability	1-13 odd, 15	
F Sep 5	1.4: Independent Events 1.5: Bayes’ Theorem	2, 5, 7, 11, 13 1-13 odd	
M Sep 8	2.1: Discrete Random Variables 2.1: Discrete Uniform Distribution 2.2: Expectation	3  1, 5, 6, 9, 11(a)	
W Sep 10	2.3: Variance and Moments	1, 4, 6, 9, 11, 15, 17, 18	<b>Practice Set #1 Due</b>
F Sep 12	2.4: The Binomial Distribution	1-9 odd, 15, 19	
M Sep 15	2.5: The Hypergeometric Distribution 2.6: The Negative Binomial Distribution	1, 3, 9 1-5 odd, 6, 7, 9	
W Sep 17	2.7: The Poisson Distribution	1-13 odd	<b>Writing #1 Due</b>
F Sep 19	Review		<b>Practice Set #2 Due</b>
M Sep 22	<b>Exam #1</b>		
W Sep 24	3.1: Continuous Random Variables 3.1: Continuous Uniform	1-3, 5-7, 9, 11, 15, 19	
F Sep 26	3.2: Exponential, Gamma, and $\chi^2$	1-4, 6, 11, 13, 16, 17, 19-21	<b>Take Home #1 Due</b>
M Sep 29	3.3: The Normal Distribution	1-5 odd, 6, 8-11, 13-15	
W Oct 1	4.1: Discrete Bivariate Distributions	1(a), 3, 5(a,b), 9	
F Oct 3	4.2: Correlation Coefficient	1, 5, 6, 10, 11	<b>Practice Set #3 Due</b>
M Oct 6	4.3: Conditional Distributions	1, 6, 9, 11	
W Oct 8	4.4: Continuous Bivariate Distributions	1, 3, 4, 5(a), 7-13 odd, 14, 15	
F Oct 10	4.5: The Bivariate Normal Distribution	1-9 odd, 13	<b>Writing #2 Due</b>
M Oct 13	5.1: Functions of One Random Variable	1-9 odd, 12-14, 17	
W Oct 15	5.2: Transformations of Two Random Variables 5.2: The Beta & F Distributions 5.3: Several Independent Random Variables	1-5, 7 Supplement 1, 3, 7-15 odd	<b>Practice Set #4 Due</b>
F Oct 17	<b>Fall Break</b> – no class		

Date	Topics	Textbook Homework	Due Dates
M Oct 20	5.4: Moment Generating Function Technique	1-11 odd, 17, 19, 21	
W Oct 22	5.5: The Normal Distribution 5.5: the Student <i>t</i> Distribution	1-11 odd, 14, 15 Supplement	
F Oct 24	5.6: The Central Limit Theorem	1-7 odd, 11	
M Oct 27	Review		<b>Practice Set #5 Due</b>
W Oct 29	<b>Exam #2</b>		
F Oct 31	6.1: Descriptive Statistics 6.2: Exploratory Data Analysis	3, 10, 11 3	
M Nov 3	6.3: Order Statistics	3-9 odd	<b>Take Home #2 Due</b>
W Nov 5	6.4: Maximum Likelihood	1, 3, 5b, 9, 12ab	
F Nov 7	7.1: Confidence Intervals for Means	1, 3, 11	
M Nov 10	7.2: Confidence Intervals for Difference of Two Means	1, 3, 7	
W Nov 12	7.3: Confidence Intervals for Proportions 7.4: Sample Size	3, 7, 9, 11 7-11	<b>Practice Set #6 Due</b>
F Nov 14	8.1: NHST for One Mean 8.2: NHST for Two Means 8.3: NHST for Variance 8.4: NHST for Proportions	Supplement	
M Nov 17	NHST Review		
W Nov 19	9.1: $\chi^2$ test for Goodness of Fit 9.2: Contingency Tables	1, 3, 4, 7 7, 9, 11	
F Nov 21	9.3: Single Factor ANOVA	Supplement	<b>Writing #3 Due</b>
M Nov 24	6.8: Bayesian Estimation	None	<b>Practice Set #7 Due</b>
W Nov 26	<b>Thanksgiving Break</b> – no class		
F Nov 28	<b>Thanksgiving Break</b> – no class		
M Dec 1	Review		
W Dec 3	<b>Exam #3</b>		
F Dec 5	Review		<b>Take Home #3 Due</b>
F Dec 12	<b>Final Exam – 8:30am</b>		