STA 2023 Course Schedule

Day/Date	Chapter	Topic and Learning Outcomes	Activities
Day 1 01/09	1.1 1.2 1.3	Orientation, Introduction, Preview and Statistical Thinking , Types of Data.	Text 1.1/1.2 Statistical Thinking and Critical Thinking 1.3 Types of Data Read 1.1/1.2 p. 3 – 11 Read 1.3 p. 15 - 20
	2.1	Frequency Distributions	Text 2.1/2.2 Frequency Distributions Read pages 43 - 50 in the textbook.
	2.2	Histograms	Text 2.3 Histograms 2.3: Read pages 54 - 58 in the textbook.
	2.3	Stem and Leaf Plots	Text 2.4 Graphs that Enlighten and Graphs that Deceive 2.4: Read pages 63 (Stemplots only) in the textbook.
Day 2 01/16	3.1	Measures of Central Tendency: Mean, Median, Mode, Midrange	Text 3.2 Measures of Center Read pages 79 - 90 in textbook.
	3.2	Measures of Variation: Range, Standard Deviation, Variance, Coeff of Variation, Empirical Rule.	Text 3.3 Measures of Variation Read pages 96-104 in textbook.
	3.3	Measures of Relative Standing: z scores, percentile, quartiles, boxplots.	Text 3.4 Measures of Relative Standing & Boxplots Read pages 112-118 in textbook.
Day 3 01/23	4.1/4.2	Basic Concepts of Probability	Text 4.2 Basic Concepts of Probability Read pages 132 - 144 in textbook.
	4.3	Addition Rule	Text 4.3 Addition Rule Read pages 149 - 152 in textbook.
	4.4/4.5	The Multiplication Rules: Basics Multiplication Rule: Complements and Conditional Probability	Text 4.4 Multiplication Rule: Basics Read pages 156-163 in textbook. Read pages 168 - 171.
	4.6	Counting	Text 4.6 : Counting Read pages 175-180 in textbook.
Day 4 01/30		Review of chapters 1, 2, 3 & 4	
Day 5 02/06		**Test 1**	
Day 6 02/13	5.1/5.2	Random Variables	Text 5.2 Probability Distributions Read pages 195 - 206 in textbook.
	5.3 5.4	Binomial Probability Distributions Parameters for the Binomial Distribution	Text 5.3 Binomial Probability Distributions Read pages 210 - 217 in textbook. 5.4 Parameters for Binomial Distributions Read pages 223-225 in textbook.
Day 7 02/20	6.2	The Standard Normal Distribution	Text 6.2: The Standard Normal Distribution Read pages 237 - 249 in textbook.
	6.3	Applications of the Normal Distribution	Text 6.3 Applications of Normal Distributions Read pages 270-276 in textbook.
	6.5	The Central Limit Theorem	Text 6.5 Central Limit Theorem Read pages 278 - 285 in textbook.

Day 8 02/27	7.1/7.2	Estimating a Population Proportion	Text 7.2 Estimating a Population Proportion Read pages 317-331 in textbook.
	7.3	Estimating a Population Mean: σ known	Text 7.3 Estimating a Population Mean Read pages 347-349 in textbook.
	7.3 (cont.)	Estimating a Population Mean: σ unknown	Text 7.3 Estimating a Population Mean: σ Not Known Read pages 337-347 in textbook.
Day 9 03/13		Review Chapters 5, 6, 7	
Day 10 03/20		**Test 2**	
Day 11 03/27	8.1/8.2	Basics of Hypothesis Testing	Text 8.2 Basics of Hypothesis Testing Read pages 375-388 in the textbook (Focus on p value method throughout chapter 8.)
	8.3	Testing a Claim about a Proportion	Text 8.3 Testing a Claim About a Proportion Read pages 393 – 401 in the textbook.
	8.4	Testing a Claim about a Mean Testing a Claim about a Mean: *σ* Not Known	Text 8.4 Testing a Claim About a Mean: *σ* Known Read pages 406 – 413 in the textbook.
Day 12 04/03	9.3 9.4	Inferences about Two Means: Independent Samples. Inferences from Dependent Samples	Text 9.3: Two Means: Independent Samples Read pages 447 – 456 in the textbook Text 9.4: Two Dependent Samples (Matched Pairs) Read pages 461-467 (skip confidence intervals) in the textbook.
	11.3 10.2 10.3	Contingency Tables Correlation and Regression	11.3 Contingency Tables Read pages 547 – 552 (skip tests of homogeneity) in the textbook. Text 10.2 Correlation Read pages 481 – 496 in the textbook. 10.3 Regression Read pages 503 – 509 in the textbook.
Day 13 04/10		Review chapters 8, 9	
Day 14 04/17		**Test 3**	
Day 15 04/24		Final review	
Day 16 05/01		**Final Exam**	

NOTE: Any changes in the Course Outline and Syllabus will be announced.