Date Schedule Assignments	
Go over Syllabus and HW schedu	
Finish Stat Support Activity#1 – Finish Stat Support Supp	
highlighting and widening colum	
Section 1A Lecture on categorical	
Feb 11 nominal vs ordinal categorical da	ata.
Textbook Problems 1A#1,2,3,4.	
Syllabus • Go over project#1. Choose project	ect questions and population
Schedule of interest.	D 16 H 1 G
Section 1A	-
 Section 1B Lecture on methods of Textbook Problems 1B#1-15 all. 	or conecting data.
Section 1C Lecture on types of b	ias in data
Feb 13 • Textbook Problems 1C#1-11 all.	ids III udta.
Section • Homework: Finish 1B and 1C pro	abbloms Start collecting data
1B & 1C and work on project#1.	obblems. Start conecting data
Excel Activity#2 typing project do	ata creating "Other"
category and doing a "Custom So	
Lecture on Experimental Design.	
Feb 18 • Ruler Experiment Activity and Pr	
Textbook Problems 1D#7-27.	00101113 12111 0
Section • Homework: Finish 1D problems.	Collect data for project.
1D Work on project#1.	concot data to: projecti
Work on project#1.	
Stat Support Activity: Rounding	(Lecture and #1-12)
Stat Support Activity: %, Proport	
(%-Proportion Lecture and #1-20	
(Scientific Notation Lecture and	
Feb 20 • Lecture: Frequencies, Total, Pro	portions, and Estimating
Amounts. Textbook Problems 1E	E#3-10
Homework: Finish Activity Problem	ems and 1E#3-10. Collect
data for project. Work on projec	
Section • February 23rd is the Last Day to	Drop with a Refund
1E (part 1) and without a "W".	
Percent of Increase: Lecture and	Textbook Problems
1E#11,13,14,15	
Stat Support Activity Intro to Sta	tKey: Lecture and
Problems#1-4	Carabastantana
Feb 25 Stat Support Activity Categorical Problems#1-4	Graphs: Lecture and
Binomial Probability: Lecture and	d Toythaak Brahlams
1E#25,26,27,28,29	d Textbook Problems
Section • Homework: Finish Activity Problem	ems and 1F#11 13-15 25-29
1E (part 2) Collect data for project. Work or	
• Finish Project#1!	. p. 0,0002.
Stat Support Activity: Normally I	Distributed.
Stat Support Activity: Quantitativ	
Feb 27 • Stat Support Activity: Mean Ave	-
Sections • Stat Support Activity: Standard	
1F (part 1) • Z-score Lecture.	
Project#1 Due Today!	
Start project#2.	
Mar 4 • Z-score Textbook Problems 1F#9	9-18 all
Section • Normal Data Analysis Lecture.	
1F (part 2) • Textbook Problems 1F#2,5,6,7,8	all

		Empirical Rule Lecture.
		Textbook Problems 1F#19-22 all
		Normal Probabilities Lecture.
		Textbook Problems 1F#23-25 all
		10/10/00/11/10/10/11/11/20/20 0//
Mar 6		Work on project#2.
		Median Lecture & Activity.
	Section	Quartiles/IQR Lecture & Activity.
	1G (part 1)	Box-Plot/Outliers Lecture & Activity.
	,	Work on project#2.
		Skewed & Non-normal Data Analysis Lecture.
		 Textbook Problems 1G#2,3,4
Mar 11		Go over project#2
		Other Quantitative Statistics Lecture and Activity#1-4.
	Sections	 Section 2A Statistics & Parameters Lecture.
	1G (part 2) & 2A	Textbook problems 2A#1-12 all
		Work on project#2.
		 Sampling Distribution Lecture.
Mar 13		 Sampling Distribution Coin Activity.
IVIdI 15		 Sampling Distribution Coffee Activity.
	Sections	Central Limit Theorem Lecture.
	2B & 2C	 Textbook problems 2C#1-7,9,10,17,18.
		Work on project#2.
		Confidence Interval Calculation & Sentence Lecture.
Mar 18		 Textbook Problems 2D#1-10.
14101 10		 Finding Statistic and Margin of Error Lecture.
	Section	 Textbook Problems 2D#11-20.
	2D	 Understanding "Confidence" Activity (2D#21-32).
		Work on project#2.
		Critical Value Z-scores StatKey Activity.
		Population Proportion Confidence Interval Calculations and
Mar 20		Conditions Lecture.
		Textbook Problems 2E#1,4-7.
	Section	Critical Value T-scores StatKey Activity.
	2E (part 1)	Affective Domain#1 Activity: Growth Mindset
		• Finish project#2!
		Population Mean Average Confidence Interval Calculations and Conditions I not use
		Calculations and Conditions Lecture.
Mar 25		Textbook Problems 2E#2,12-19. Lecture: One Penulation Mean and Proportion Restators
		Lecture: One-Population Mean and Proportion Bootstrap Confidence Interval Lecture
	Cartina	Confidence Interval Lecture. • Lecture: Bootstrap vs Sampling Distributions
	Sections	
	2E (part 2)	Textbook Problems 2E#3,20-27.

Mar 27	Section 2F (part 1)	 Project#2 Due Today! Stat Support Difference Activity. Lecture: Two-Population Confidence Interval Interpretations. Textbook Problems 2F#4-12 Lecture: Calculations for two-population proportion confidence interval. Stat Support Activity: Calculations for two-population proportion confidence interval. Stat Support Activity: Two-population degrees of freedom and critical value T-scores.
Apr 1	Section 2F (part 2)	 Work on project#3. Lecture: Calculations for Two-population mean confidence interval from independent groups. Stat Support Activity: Calculations for Two-population mean confidence interval from independent groups. Lecture: Calculations for Matched Pair mean confidence intervals. Stat Support Activity: Calculations for Matched Pair mean confidence intervals. Lecture: Two-population confidence intervals conditions and bootstraps. Textbook problems 2F#14,16,17,19 Go over Project#3
Apr 3	Section 3A & 3B (part 1)	 Work on project#3. Lecture: Inequalities & Population Parameters. Stat Support Activity: Inequalities & Population Parameters. Section 3A Null & Alternative Hypothesis Lecture. Finish textbook problems 3A#1-20 all. Section 3B Intro to Test Statistic (Tail Rule) Lecture. Finish textbook problems 3B#1-20 all.
Apr 8	3/(Q 35 (pur(1)	Catch up on missing work,
Apr 10	Spring Break	projects, and assignments.
Apr 15	Section 3B (part 2)	 Work on project#3. Stat Support Activity: Significance Levels (Also includes drawing distributions and labeling critical values & test statistics) Section 3B Lecture: Using StatKey and Significance level to Calculate Critical Values. Textbook problems 3B#21-29 all. Section 3B Lecture: One-Population Test Stat Sentences and Calculations. Textbook problems 3B#30-35 all. Affective Domain Activity#2: Grit
Apr 17	Section 3C	 Work on project#3. Lecture: 3C Introduction to P-value. Finish problems 3C#1-20 all. Lecture: P-value in Hypothesis Test Example 3C#33 Finish problems 3C#33-36 all. Lecture: StatKey Theoretical Distribution P-value Calculations. Finish problems 3C#39,41,44. Stat Support Activity: Drawing P-value, Significance Level, Test Statistic and Critical Value on same distribution (#1-10)

	T	e Finish project#21
		Finish project#3! Lecture: Section 3D Hunothesis Test Conclusions
		 Lecture: Section 3D Hypothesis Test Conclusions. Stat Support Conclusion Activity#1-16.
		Conclusion with Scientific Study Example 3D#17.
Apr 22		Finish textbook problems 3D#17-21.
		3E Lecture: Type 1 and Type 2 Errors.
ļ	Castiana	Finish textbook problems 3E#1-15.
	Sections 3D & 3E	·
	3D & 3E	com c Domain richting, on coo
		,
		 Lecture Section 3F One-Population Proportion Hypothesis Test.
		Stat Support Activity: One-Population Test Statistics #1-3 Packlana 35#4 4.7.44.46
Am. 24		Problems 3F#1,4-7,14,16. Active Section 35 One Regulation Mean Unique thesis Tests
Apr 24		Lecture Section 3F One-Population Mean Hypothesis Test.
		Stat Support Activity: One-Population Test Statistics #4-6 Population Test Statistics #4-6
		Problems 3F#2,8-11,18,20 And a visual Signal Atlant (Panda visation)
		Lecture: Randomized Simulation (Randomization) Contact to "Randomized Simulation (Randomization)" Contact to "Randomized Simulation (Randomized Simulation)" Contact to "Randomized Simulation (Randomized Simulation (Rando
		Go to the "Pre-Stat" page on www.matt-teachout.org and
	Continu 25	open the Stat Support Activity: Randomized Simulation. Do
	Section 3F	problems #1 & #2.
		 Lecture Section 4B: Intro to ANOVA, Ho, Ha, Conditions Stat Support Activity: ANOVA and F-test statistic
		Calculations#1-3
		• Finish problems 4B#1-4,21-24
		Lecture and Problems Section 4B: Traditional ANOVA test
Apr 29		Australia Salary example. Finish problems 4B#26,28
		Lecture and Problems Section 4B: Randomization ANOVA
		test Football Concussion example. Finish problems 4B#30,32
	Section	HW: Finish Activity Problems, Finish 4B problems,
	4B	and start on project#4.
		Lecture Section 4C: Intro to two-pop. proportion Z-test. (Ho,
		Ha, Conditions, Z-test stat)
		Stat Support Activity: Two-pop. Z-test statistic
		Calculations#1-3
		Problems 4C#1-10
		Lecture Section 4C: Example 2-pop % Hypothesis Test
May 1		• Problems 4C#26,27,28
		Lecture Section 4C: Two-pop. proportion experiments and
		randomization.
		 Problems 4C#32,33,34,35ab
	Section	HW: Finish Activity Problems, Finish 4C problems,
	4C	and work on project#4.
May 6		Lecture 4A: Intro to the Two-Population T-test statistic
		Stat Support Activity: 2-population T-test statistic
		Calculations#1-4
		Problems 4A#1-6
		Lecture 4A: Two-Population Mean Hypothesis Test for
		Independent Groups and Matched Pair.
		• Problems 4A#28,29,30,34,35,36
		HW: Finish Stat Support Activity Problems, Finish 4A
	Section	problems, and work on project#4.
	4A	NOTE: Last day to drop is this Saturday November 9th!

May 8		 Lecture Section 4D: Intro to Goodness of Fit Test and the Chi-Square Test Statistic (Example #1) Problems 4D#1-6,#21-25 Lecture Section 4D: Goodness of Fit Test (Example #30) Problems 4D#30-32 StatKey Lecture: Find df and Chi-Square test statistic. Use the Chi-Square distribution to look up critical value and P-value. (Examples #11 & #26) Problems 4D#11-16
	Section	 Problems 4D#26-29. (Find df and chi-square test stat. Look up critical value and P-value. Then finish the hypothesis test.) Homework: Work on project#4. Finish problems 4D. Finish and turn in make-up work. May 10th is the last Day to Drop. Will receive a "W" on
	4D	record.
		Finish Project#4!
		 Lecture 4E: Contingency Table Marginal Proportions Problems 4E#3,4,11,12,19,20,27,28
		 Lecture 4E: Contingency Table Joint Proportions
May 13		 Problems 4E#5-8,13-16,21-24,29-32
		Lecture 4E: Contingency Table Conditional Proportions
		 Problems 4E#1,2,9,10,17,18,25,26
	Sections	 Work on project#4. Finish Problems 4E.
	4E	Finish and turn in make-up work.
		Project#4 Due Today!
		 Lecture 4F: Categorical Association Test, Ex 4F#35
May 15		• 4F#23,24,25,26,27,28,30,32
	Section	 Finish problems 4F, and Stat Support Activities.
	4F	Finish and turn in make-up work.
May 20	Section 4G (part 1)	 Lecture 4G: Explanatory & Response variables, Scatterplots, Correlation Coefficient (r), coefficient of determination (r²). Stat Support Correlation Coefficient Activity#1-11 Lecture: Regression lines, slope, y-intercept, definitions Finish problems 4G, and Stat Support Activities. Finish and turn in make-up work.
May 22	Section 4G (part 2)	 Stat Support Regression Line Activity#1-8 Problems 4G#1,2,3,5,6 Lecture4G: Predictions, Extrapolation, Residuals, Standard Deviation of the Residual Errors (s_e) Problems 4G#4,7,8,10,11 Finish problems 4F, 4G, and Stat Support Activities. Finish and turn in make-up work.
	40 (part 2)	·
p.a 2=		Lecture 4H: Correlation Test Ho, Ha, r, T-test stat, Critical Values, P-value, Correlation Test Activity#1,2,3,6,7,14 Lecture Residual Plate Correlation Test Conditions - Condition Test Conditions - Condi
May 27	Continu	 Lecture: Residual Plots, Correlation Test Conditions Problems 4H#21-27
	Section 4H	
	<u>4</u> П	Finish 4H problems and turn in make-up work. Section 14 1D Review Lecture.
May 29		Section 1A-1D Review Lecture. Ch1 Review Short #1 3hdgh 4 F
		Ch1 Review Sheet #1,2bdgh,4,5 Section 15 16 Review Lecture
		Section 1E-1G Review Lecture. Ch1 Review Chart #7aba 8 0 13aba 14 19
		Ch1 Review Sheet #7abc,8,9,12abc,14-18 Ch2 Review Sheet #7abc,8,9,12abc,14-18
	Final Payion Ch. 193	• Ch2 Review Lecture. Ch2 Review Sheet#1(n,p,β,μ,x̄,r,s),
	Final Review Ch. 1&2	9(sampling distribution, standard error), 10abefgh, 11,12,15.

		•	Homework: Finish Ch1 & Ch2 Review Sheet problems.
			Study for Final Exam! Finish and turn in make-up work.
		•	Review Lecture Ch3&4
June 3		•	Ch 3 Review Sheet#3-6,7ab,11,14
	Final Review Ch. 3&4	•	Ch4 Review Sheet#1-17 all
		•	Study for Final Exam! Finish and turn in make-up work.
June 5	Cumulative	•	Last day to turn in make-up work!!
	Final Exam		Math 140 is over! Have a great winter break!