COC Math 140 In-Person 16-week MW Homework Schedule Project-Based Curriculum / Teachout Textbook / Spring 2024 / Updated 4-29-24

Date	Schedule	Assignments
	Syllabus,	Read syllabus and schedule. Find project team members.
Feb 5	Schedule,	Email Teachout choice of project questions and team members name.
	Section 1A	Types of Data Lecture. Problems 1A#1,2,3.
	Section	Start collecting data for project#1. Work on project#1. Collecting Data
Feb 7	1B	Lecture. Discuss project#1 during class. Problems 1B#1-11 all.
		Collect data for project#1. Work on project#1. Bias Lecture.
Feb 12	Section	Excel Project Data Activity – Typing data, "Other" category, Custom Sort.
	1C	Problems 1C#1-6 all.
	Section	Finish collecting data for project#1. Work on project#1. Experiment
Feb 14	1D	Lecture. Class Experiment Ruler Activity. Problems 1D#1-6,17-20
	COC	No class.
Feb 19	Holiday	Work on project#1.
		Finish project#1! Rounding Exercise. Lecture Section 1E (% Conversions,
Feb 21	Section	Proportions, Amounts, % Increase, StatKey).
. 0.0 ==	1E	Problems 1E#1a-h,2a-h,3,4,6,7,9,13-15,18,20,22
		Project#1 Due Today! Lecture Section 1F (Normal, Mean, Standard
Feb 26	Section	Deviation, Typical Values, Outliers, Z-scores, Empirical Rule, Normal %)
100 20	1F	Start project#2.
	±1	Work on project#2. Section 1F Review.
Feb 28	Section	Go over problems 1F#1,2,6,7,9-11,14,15,19,22,24.
160 20	1F & 1G	Median Activity, Quartiles & IQR Activity
	11 0 10	Work on project#2. Shape Activity. Box-Plot Activity
Mar 4	Section	Skewed or Non-normal Data Analysis Lecture.
IVIAI 4	1G	Finish problems 1G#1,2,3,4,7
	10	Work on project#2. Other Quantitative Statistics Activity
Mar 6	Section	Lecture 2A Statistics and Parameters
IVIAI 0	1G & 2A	Finish problems 2A#2-25 all
	10 Q ZA	Work on project#2. Sampling Distribution Coin Activity, Sampling
Mar 11	Sections	Distribution Coffee Activity, Sampling Distribution & Central Limit Theorem
IVIAI II	2B - 2C	Lecture, Textbook problems 2B#1-3,5-8,19,20 and 2C#1-7,9,10,17,18.
	ZD - ZC	Work on project#2. Confidence Interval Calculation & Sentence Lecture,
		Textbook Problems 2D#1-10, Finding Statistic and Margin of Error Lecture,
Mar 13	Section	Textbook Problems 2D#1-10, Finding statistic and Margin of Error Lecture, Textbook Problems 2D#11-20, Understanding "Confidence" Activity
	2D	(2D#21-32).
	20	Finish project#2! Critical Value Z-scores StatKey Activity.
		Critical Value T-scores StatKey Activity. One-Population Proportion
		Confidence Interval Calculations and Conditions.
Mar 18		Textbook Problems 2E#1,4-7. One-Population Mean Average
	Section	Confidence Interval Calculations and Conditions.
	2E	Textbook Problems 2E#2,12-15.
	ZL	
		Project#2 Due Today! Work on project#3. One-Population Mean and Proportion Bootstrap Confidence Interval
Mar 20		Lecture. Textbook Problems 2E#3,20,21,24,25.
IVIAI 20	Sections	Two-Population Confidence Interval Interpretations Lecture.
	2E - 2F	Textbook Problems 2F#4-9 all.
	ΔE - ΔΓ	
		Work on project#3: Lecture: Two-Population Proportion, Mean, and Matched Pair Confidence Interval Formulas Conditions.
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Mar 25	Coctions	Lecture: Two-Population Proportion, Mean, and
	Sections	Matched Pair Bootstrap.
	2F	Textbook Problems 2F#13-20.

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		Manhana mariantus
		Work on project#3.
Mar 27		Stat Support Activity: Inequalities and Parameters. Section 3A Null &
	6 11	Alternative Hypothesis Lecture. Finish textbook problems 3A#1-20 all.
	Sections	Section 3B Intro to Test Statistic (Tail Rule) Lecture. Finish textbook
	3A & 3B	problems 3B#1-20 all.
Apr 1 &	Spring	Have a nice spring break! Work on project#3.
3	Break	Catch up on make-up work.
Apr 8		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.
		Finish problems 3B#21-29 all.
	Sections	Section 3B Lecture: One-Pop. Test Stat Sentences and Calculations
	3B	Finish problems 3B#30-35 all.
		Work on project#3. Stat Support Activity: Scientific Notation (Also includes
		P-value proportion and % conversions)
		Lecture: 3C Introduction to P-value. P-value in Hypothesis Test Example
Apr 10		3C#33. Textbook problems 3C#1-15 !-34
		Lecture: StatKey Theoretical Distribution P-value Calculations. Example
		3C#40&41. Finish textbook problems 3C#38-42.
	Section	Stat Support Activity: Drawing P-value, Significance Level, Test Statistic and
	3C	Critical Value on same distribution.
		Finish project#3! Lecture: Section 3D Conclusions.
		Hypothesis Test Conclusion Activity#1-8.
Apr 15		Finish textbook problems 3D#17-20.
	Section	Lecture: 3E Type 1 and Type 2 Errors.
	3D & 3E	Finish textbook problems 3E#1-15.
		Project#3 Due Today!
		Lecture One Population Hypothesis Test Conditions
A 17		Finish problems 3F#1-11.
Apr 17		Stat Support Activity: Randomized Simulation (#1 & #2)
	Continu	Lecture One Population Hypothesis Tests
	Section	Finish problems 3F#12,14,15,18,21,22
	3F	Problems Section 3F will be collected.
		Class Cancelled due to instructor illness.
		Go to www.matt-teachout.org . Watch both of the section 4B lecture videos "Introduction to the ANOVA Hypothesis Test" on the statistics page
		and take hand written notes. Watch both of the section 4B lecture videos
		"ANOVA Hypothesis Test with StatKey and Statcato" on the statistics page
Apr 22		and take hand written notes. Watch all three lecture videos on problems
		4B#26,30,32 on the statistics page and take hand written notes. Finish
		problems 4B#1-5,21-24,26,30,32.
	Section	Start on project#4 after studying section 4B.
	4B	Section 4B Lecture Notes and Problems will be collected.
	טד	Work on project#4.
Apr 24	Section	Lecture 4C: Two-Population Proportion Hypothesis Test
	4C	Finish problems 4C#1-5, 21-23,27,29,32,33,35ab
	70	Work on project#4.
Apr 29		Lecture 4A: Two-Population Mean Hypothesis Test (Independent Groups)
	Section	Lecture 4A: Matched Pair Population Mean Difference Hypothesis Test
	4A	Finish problems 4A#1-5,21-27,28,29,33,34,35
	44	1 1111311 PLONELIIS 4A#1-3,21-27,20,23,33,34,33

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May 1	Section	Work on project#4.
	4D	Finish problems 4D
May 6	Sections	Work on project#4. Finish problems 4E.
	4E	Finish and turn in make-up work.
May 8	Section	Work on project#4. Finish problems 4F.
	4F	Finish and turn in make-up work.
May 13	Section	Finish Project#4! Finish problems 4G.
	4G	Finish and turn in make-up work.
May 15	Section	Project#4 Due Today! Finish problems 4H.
	4H	Finish and turn in make-up work.
May 20		Finish problems Ch1 Review Sheet #1,2bdgh,4,5,6,7abc,8,9,12abc,14-18
	Final Review #1	Ch2 Review Sheet#1(n,π,ρ̂,μ,x̄),10abefgh,12
		Study for Final Exam! Finish and turn in make-up work.
		Ch3 Review Sheet#3,4,5,8,9,10,11
May 22	Final Review #2	Ch4 Review Sheet#1,3,6,7,8,9,10,11,12,13,14
		Study for Final Exam! Finish and turn in make-up work.
May 27	COC	No class. Study for Final Exam!
	Holiday	Finish and turn in make-up work.
May 29	Cumulative	Last day to turn in make-up work!!
	Final Exam	Math 140 is over! Have a great summer!