Deadlines (Quick Reference)

- Problem Sets due 24 hours prior to following week's live session
- Final Project Deadlines
 - o Progress Report 1 October 11th, 2021 (5:30P Central Time)
 - o Progress Report 2 October 27th, 2021 (5:30P Central Time)
 - Progress Report 3 November 8th, 2021 (5:30P Central Time)
 - o Progress Report 4 December 6th , 2021 (5:30P Central Time)
 - o Final report December 14th, 2021 (by midnight Central Time)

Detailed Schedule (Subject to Change)

Date	Module	Readings	Assignments Due	Additional Resources
Week 1	Welcome to Data	Wickham		
Aug 31, 2021	Science: Tools of	Welcome: Introduction		
	the Trade	Explore		
		 Introduction 		
		Workflow: basics		
		Workflow: projects		
		Silver		
		Chapter 1		
Week 2	Analyzing Data:	Wickham	Problem Set 1	
Sep 7, 2021	Conditional Means	 Explore: Data transformation 	(Sep 6)	
		Silver		
		Chapter 2		
Week 3	Presenting Data:	Wickham	Problem Set 2	ggplot2 - Bar and line graphs
Sep 14, 2021	Descriptive Plots	 Explore 	(Sep 13)	
		 Data visualization 		ggplot2 - Plotting distributions
		 Data transformation 		
		Silver		
		Chapter 3		

Week 4	Getting Data: Flat	Wickham	Problem Set 3	
Sep 21, 2021	Files and "Tidy	Wrangle	(Sep 20)	
	Data"	 Data import 		
		Tidy Data		
		Silver		
		Chapter 4		
Week 5 & 6	Analyzing Data:	Wickham	Problem Set 4	
Sep 28, 2021	Linear Regression	Model	(Sep 27)	
Oct 5, 2021		 Introduction 		
		 Model Basics 		
		 Model Building 		
		Silver		
		Chapter 5		
Week 7	Presenting Data:	Wickham	Problem Set 5	
Oct 12, 2021	Scatterplots	Explore	(Oct 11)	
		 Data visualization 		
		Communicate	Final Project	
		Graphics for	• Progress Report 1	
		Communication	(0ct 11)	
		Silver		
		• Chapter 6		
Week 8	Getting Data: Web	Wickham	Problem Set 6	Reed College rvest Introduction
Oct 19, 2021	Sources	• Explore	(Oct 18)	
		Data visualization		
		Data transformation		
		Silver		
11/ 1 0 0 10		Chapter 7	5 11 6 17	
Week 9 & 10	Analyzing Data:	Wickham	Problem Set 7	James, G., Witten, D., Hastie, T., &
Oct 26, 2021	Classification	Explore Determination	(Oct 25)	Tibshirani, R. (2013). An
Nov 2, 2021		Data visualization	Final Drainet	introduction to statistical learning
		Data transformation Silver	Final Project	(Vol. 6). New York, NY: Springer.
		Silver	• Progress Report 2	<u>Chapter 4 , Chapter 4 Lab R Code</u>
		Chapter 8	(0ct 25)	

				Althoff, T., Danescu-Niculescu-Mizil, C., & Jurafsky, D. (2014, May). How to ask for a favor: A case study on the success of altruistic requests. In ICWSM.
Week 11	Presenting Data:	Wickham	Problem Set 8	
Nov 9, 2021	Plots and Tables	Explore	(Nov 8)	
	for Classification	 Data visualization 		
		 Data transformation 	Final Project	
		Silver	 Progress Report 3 	
		Chapter 9	(Nov 8)	
Week 12	Cross Validation	Wickham	Problem Set 9	
Nov 16, 2021		Model	(Nov 15)	
		 Many Models 		
		Silver		
		Chapter 10		
		Thanksgiving	Break	
Week 13	Cross Validation	Wickham	Final Project	
Nov 30, 2021	(Con.)	Model	Progress Report 4	
		 Many Models 	(Dec 6)	
		Silver		
		Chapter 10		
Week 14	Misc.	TBD	Problem Set 10	
Dec 7, 2021			(Dec 6)	
Week 15			Final Project	
Dec 14, 2021			Final Product	
			(Dec 14)	