Updates

- *None at this time.*

Deadlines (Quick Reference)

- Problem Sets due prior to the start of live session
  - Assignment 1 (LMS 1, 4, & 7) – Feb 14, 2022
  - Assignment 1 (LMS 2 & 3) – Feb 28, 2022
  - Assignment 1 (LMS 5 & 6) – Mar 21, 2022
  - Assignment 1 (LMS 8) – Apr 4, 2022
  - Assignment 1 (LMS 9 & 10) – Apr 25, 2022

- Final Project Deadlines
  - Progress Report 1 – Feb 21, 2022
  - Progress Report 2 – Mar 28, 2022
  - Progress Report 3 – Apr 11, 2022
  - Final report - May 2, 2022 (by 11:59p Pacific Time)

Detailed Schedule (Subject to Change)

Date	Module	Readings	Assignments Due	Additional Resources
Week 0 Prior to Jan 17, 2022	R bootcamp (Optional)	.Rmd File • 00_Getting Started		Recording available here.
Week 1 Jan 24, 2022	Welcome to Data Science: Tools of the Trade	Wickham • Welcome: Introduction • Explore ○ Introduction ○ Workflow: basics ○ Workflow: projects Silver • Chapter 1		

Week 2
Jan 31, 2022
	Getting Data: Flat Files and "Tidy Data"	Wickham
		• Wrangle
		    o Data import
		    o Tidy Data
		Silver
		• Chapter 2
				Data input and output

Week 3 Feb 7, 2022	Getting Data: Web Sources	Silver • Chapter 3	Group Project breakouts (in-class)	Reed College rvest Introduction Data input and output
Week 4 Feb 14, 2022	Analyzing Data: Conditional Means	Wickham • Explore: Data transformation Silver • Chapter 4	Assignment 1 due • LMS modules 1, 4,& 7	

Week 5
Feb 21, 2022
	Presenting Data: Descriptive Plots	Wickham
		• Explore
		    o Data visualization
		    o Data transformation
		
		Silver
		• Chapter 5
			Group project
			• Progress Report 1
				ggplot2 - Bar and line graphs
				
				ggplot2 - Plotting distributions

Week 6
Feb 28, 2022
	Analyzing Data: Linear Regression	Wickham
		• Model
		    o Introduction
		    o Model Basics
		    o Model Building
		Silver
		• Chapter 6
			Assignment 2 due
			• LMS modules 2 & 3
				Statistical analysis

Spring Break (no class)				

Week 7
Mar 14, 2022
	Presenting Data: Scatterplots	Wickham
		• Explore
		  ○ Data visualization
		• Communicate
		  ○ Graphics for Communication
		Silver
		• Chapter 7
				Statistical analysis

Week 8
Mar 21, 2022
	Analyzing Data: Classification (pt1)	Wickham
		• Model
		  ○ Introduction
		  ○ Model Basics
		  ○ Model Building
		Silver
		• Chapter 8
			Assignment 3 due
			• LMS modules 5 & 6
				James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). An introduction to statistical learning (Vol. 6). New York, NY: Springer. Chapter 4 , Chapter 4 Lab R Code
				
				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 9
Mar 28, 2022
	Analyzing Data: Classification (pt2)	Wickham
		• Model
		  ○ Introduction
		  ○ Model Basics
		  ○ Model Building
		Silver
		• Chapter 9
			Group project
			• Progress Report 2
				Same as above

Week 10
Apr 4, 2022
	Presenting Data: Plots and Tables for Classification	Wickham
		• Explore
		  ○ Data visualization
		  ○ Data transformation
		Silver
		• Chapter 10
			Assignment 4 due
			• LMS modules 8	

Week 11 Apr 11, 2022	Cross Validation	Wickham • Model ○ Many Models Silver • Chapter 11	Group project • Progress Report 3	
Week 12 Apr 18, 2022	GROUP PROJECT (DRAFT) PRESENTATIONS – Week 1 (3 to 4 groups will present)			
Week 13 Apr 25, 2022	GROUP PROJECT (DRAFT) PRESENTATIONS – Week 2 (3 to 4 groups will present)		Assignment 5 due • LMS modules 9 & 10	
Week 14 May 2, 2022	**FINAL PRESENTATIONS and FINAL REPORTS DUE: Monday, May 2nd, 2022 (by 11:59p, Pacific Time)**			