

Updates

- *None at this time.*

Deadlines (Quick Reference)

- Problem Sets due prior to the start of live session
 - Assignment 1 (LMS 1, 4, & 7) – Jun 01, 2022
 - Assignment 2 (LMS 2 & 3) – Jun 15, 2022
 - Assignment 3(LMS 5 & 6) – Jun 29, 2022
 - Assignment 4 (LMS 8) – Jul 20, 2022
 - Assignment 5 (LMS 9 & 10) – Aug 10, 2022
- Final Project Deadlines
 - Progress Report 1 – Jun 08, 2022
 - Progress Report 2 – Jul 06, 2022
 - Progress Report 3 – Jul 27, 2022
 - Final report – Aug 13, 2022 (by 11:59p Pacific Time)

Detailed Schedule (Subject to Change)

Date	Module	Readings	Assignments Due	Additional Resources
Week 0 Prior to May 10, 2022	R bootcamp (Optional)	.Rmd File <ul style="list-style-type: none"> • 00_Getting Started 		Recording available here .
Week 1 May 11, 2022	Welcome to Data Science: Tools of the Trade	Wickham <ul style="list-style-type: none"> • Welcome: Introduction • Explore <ul style="list-style-type: none"> ○ Introduction ○ Workflow: basics ○ Workflow: projects Silver <ul style="list-style-type: none"> • Chapter 1 		

Week 2 May 18, 2022	Getting Data: Flat Files and “Tidy Data”	Wickham <ul style="list-style-type: none"> • Wrangle <ul style="list-style-type: none"> ○ Data import ○ Tidy Data Silver <ul style="list-style-type: none"> • Chapter 2 		Data input and output
Week 3 May 25, 2022	Getting Data: Web Sources	Silver <ul style="list-style-type: none"> • Chapter 3 	Group Project breakouts (in-class)	Reed College rvest Introduction Data input and output
Week 4 Jun 01, 2022	Analyzing Data: Conditional Means	Wickham <ul style="list-style-type: none"> • Explore: Data transformation Silver <ul style="list-style-type: none"> • Chapter 4 	Assignment 1 due <ul style="list-style-type: none"> • LMS modules 1, 4,& 7 	
Week 5 Jun 08, 2022	Presenting Data: Descriptive Plots	Wickham <ul style="list-style-type: none"> • Explore <ul style="list-style-type: none"> ○ Data visualization ○ Data transformation Silver <ul style="list-style-type: none"> • Chapter 5 	Group project <ul style="list-style-type: none"> • Progress Report 1 	ggplot2 - Bar and line graphs ggplot2 - Plotting distributions
Week 6 Jun 15, 2022	Analyzing Data: Linear Regression	Wickham <ul style="list-style-type: none"> • Model <ul style="list-style-type: none"> ○ Introduction ○ Model Basics ○ Model Building Silver <ul style="list-style-type: none"> • Chapter 6 	Assignment 2 due <ul style="list-style-type: none"> • LMS modules 2 & 3 	Statistical analysis

Week 7 Jun 22, 2022	Presenting Data: Scatterplots	Wickham <ul style="list-style-type: none"> • Explore <ul style="list-style-type: none"> ○ Data visualization • Communicate <ul style="list-style-type: none"> ○ Graphics for Communication Silver <ul style="list-style-type: none"> • Chapter 7 		Statistical analysis
Week 8 Jun 29, 2022	Final Project – in-class group work	Silver <ul style="list-style-type: none"> • Chapter 8 	Assignment 3 due <ul style="list-style-type: none"> • LMS modules 5 & 6 Breakout rooms. Come prepared to do group work and have a short check-in.	
Week 9 Jul 06, 2022	Analyzing Data: Classification (pt1)	Wickham <ul style="list-style-type: none"> • Model <ul style="list-style-type: none"> ○ Introduction ○ Model Basics ○ Model Building Silver <ul style="list-style-type: none"> • Chapter 9 	Group project <ul style="list-style-type: none"> • Progress Report 2 	<u>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</u> <u>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.</u>
Week 10 Jul 13, 2022	Analyzing Data: Classification (pt2)	Wickham <ul style="list-style-type: none"> • Model <ul style="list-style-type: none"> ○ Introduction ○ Model Basics ○ Model Building Silver <ul style="list-style-type: none"> • Chapter 10 		<i>Same as above</i>

Week 11 Jul 20, 2022	Presenting Data: Plots and Tables for Classification	Wickham <ul style="list-style-type: none"> • Explore <ul style="list-style-type: none"> ○ Data visualization ○ Data transformation Silver <ul style="list-style-type: none"> • Chapter 11 	Assignment 4 due <ul style="list-style-type: none"> • LMS modules 8 	
Week 12 Jul 27, 2022	Cross Validation	Wickham <ul style="list-style-type: none"> • Model <ul style="list-style-type: none"> ○ Many Models Silver <ul style="list-style-type: none"> • Chapter 12 	Group project <ul style="list-style-type: none"> • Progress Report 3 	
Week 13 Aug 03, 2022	<u>GROUP PROJECT (DRAFT) PRESENTATIONS – Week 1 (3 to 4 groups will present)</u>			
Week 14 Aug 10, 2022	<u>GROUP PROJECT (DRAFT) PRESENTATIONS – Week 2 (3 to 4 groups will present)</u>		Assignment 5 due <ul style="list-style-type: none"> • LMS modules 9 & 10 	
Week 14 Aug 13, 2022	FINAL PRESENTATIONS and FINAL REPORTS DUE: Saturday, Aug 13nd, 2022 (by 11:59p, Pacific Time)			