Page 1 Date	Module	O 8200 Detailed Schedule (Subject to Cha Assignments Due (Due the day prior to week's session	Last updated: March 2, 2023 Suggested Readings
		unless otherwise specified)	
Week 0	Optional R Bootcamp		R Setup Slide Deck Rmd Bootcamp File Bootcamp knit lecture notes If you did not attend bootcamp, you should review the .Rmd file and the video recording
			and be sure everything runs smoothly.
Week 1 Jan 11-12	Module 1. Welcome to Data Science: Tools of the Trade		 Wickham: Welcome: Introduction Explore Introduction Workflow: basics Workflow: projects Silver, Chapter 1
Week 2 Jan 18-19	Module 2. Getting Data: Flat Files and "Tidy" Data	Post on the LMS wall some potential areas of interest for the group project. The project will consist of analyzing data to build a predictive model for a particular phenomenon. Groups will consist of 3-5 people (no more, no less). I encourage making connections based on substantive interests rather than friendships, but as long as you have a group, I won't push you on this	 Wickham: Wrangle Data import Tidy data Silver, Chapter 2 Additional Resource: http://www.cookbook- r.com/Data input and output/
Week 3 Jan 25-26	Module 3. Getting Data: Web Sources	 Group project – <i>In-class</i> discussion of the project (including norms surrounding communication and expectations) and group breakouts (we will use this time to finalize groups – if someone doesn't have a group at this point, we will find that person a group). I expect that every group (if not at the max number of 5 people) will be open to additional group members if needed 	 Silver, Chapter 3 Additional Resource: http://www.cookboolr.com/Data_input_and_output/

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Week 4 Feb 1-2	Module 4. Analyzing Data: Conditional Means (supplemental Ntiles code included in .Rmd but not in async videos)	Problem Set 1 due (LMS Modules 1, 2, & 3)	 Wickham: Explore: Data transformation Silver, Chapter 4
Week 5 Feb 8-9	Module 5. Presenting Data: Descriptive Plots	Group project – Progress Report 1 due	 Wickham: Explore Data visualization Data transformation Silver, Chapter 5 Additional Resources:
Week 6 Feb 15-16	Module 6. Analyzing Data: Linear Regression (we will split this unit across 1.5 weeks)	Problem Set 2 due (LMS Modules 4 & 5)	 Wickham: Model Introduction Model basics Model building Silver, Chapter 6 Additional Resource: http://www.cookbook-r.com/Statistical analysis/
Week 7 Feb 22-23	Module 6. Analyzing Data: Linear Regression (remainder)		 Wickham: Model Introduction Model basics Model building

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	Module 7. Presenting data: Scatterplots		 Explore Data visualization Silver, Chapter 7 Additional Resource: http://www.cookbook-r.com/Statistical analysis/
Week 8 March 1-2	Module 8. Analyzing Data: Classification (part 1 – we are splitting this module across two weeks)	 Problem Set 3 due (LMS Modules 6 & 7) Necessary Reading - Article: Althoff, T., Danescu-Niculescu-Mizil, C., & Jurafsky, D. (2014). How to ask for a favor: A case study on the success of altruistic requests. In ICWSM. Available at: http://www.aaai.org/ocs/index.php/ICWSM/ICWSM14/paper/download/8106/8101 	 Wickham Model Introduction Model basics Model building Silver, Chapter 8
Week 9 March 8-9	Group Project Work	Group project – Progress Report 2 due	
		Spring Break	
Week 10 March 22-23	Book Discussion	Problem Set 4 due (LMS Module 8)	Silver Book
Week 11 March 29-30	Group Work + Suggested Async Module 14.1-14.5	 Final Project – in-class group work – we will be using breakout rooms to have group meetings this week. Come prepared to do group work and have a short check-in with Rafael. 	
Week 12 April 5-6	Module 10. Cross Validation (Look for details on course site)	Group project – Progress Report 3 due	WickhamModelMany Models
Week 13 April 12-13	Group Project Presentations		

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Week 14 April 19-20	Group Project Presentations			
Week 15 May 1	FINAL PRESENTATIONS AND FINAL REPORTS DUE: Monday, May 1st by Midnight Paci Time			