		Readings		<u> </u>	A
111		readings	Lecture	Quiz	Assignment
Week 1					
Т	27-Aug		Intro to the class, What is data, data		R and Rstudio refresher/ data
			structures		structures
At Home			Collecting and recording data in a		Making Data sheets for the field
		Broman and Woo (2017)	reproducible way, metadata		versus analysis
Week 2					
Т	3-Sep	Lowndes et al. 2017 (Nature	What is reproducible research and why is it	1	Tools for reproducible research
		Eco Evo)	important?		(Github)
At Home			Reproducible scripts and		Set up your file structure and make a
		R4DS Ch4, Ch6	workflow/importing data		script
Week 3					
Т	10-Sep	Healy Ch 1, R4DS Ch 3	What makes a good visual?	2	Practice with ggplot
At Home		Wilke Ch 1-5	Visuals part 2		More ggplot
Week 4					
_	17-Sep		Data Wrangling part 1 (group_by, filter,	3	
Т		R4DS Ch 5, Ch 11	select, summarise, mutate)		Practice with dplyr
			Data Wrangling part 2 (tidyr - pivots,		2
At Home		R4DS Ch 12, 18	separate, unite)		Practice with tidyr
Week 5		·			
Т	24-Sep	R4DS Ch 13	Relational data	4	Practice different types of joins
At Home	•	R4DS Ch 16	Dates and times (lubridate)		Practice with dates and times
Week 6					
Т	1-Oct	R4DS 27,29	Intro to Rmarkdown	5	Practice with Rmarkdown
At Home			Rmarkdown part II		Practice with Rmarkdown
Week 7			·		
Т	8-Oct		Working with spatial data and making maps	6	Make a map/ Good plot/Bad plot lab
		Wilke Ch 15, Healy Ch 7			Directions
At Home			Working with spatial data and making maps		
			part II		
Week 8					
Т	15-Oct	R4DS 19	Functional programing	7	Write a function

At Home			Fun advanced plotting (gganimate, etc)		
Т	22-Oct	R4DS Ch 14,15	Working with strings and regex	8	Final project proposal due
At Home			Working with factors		Working with words
Week 9					- C
Т	29-Oct		Goodplot/Badplot presentations	9	
At Home			TidyTuesday Plot		
Week 10					
Т	5-Nov		Election Day - No class Go Vote		Work on independent project
At Home			TidyTuesday Plot		
Week 11					
Т	12-Nov	Mastering Shiny Ch1	Intro Shiny apps	10	Shiny apps
At Home			TidyTuesday Plot		
Week 12					
Т	19-Nov		How to ask for help (googling, stack overflow, and Reprex)	11	Make a reprex
At Home			TidyTuesday Plot		
Т	26-Nov		Work on Independent Project	12	No in person class, Thanksgiving week
At Home			TidyTuesday Plot		
Week 13					
Т	3-Dec	R4DS Ch 21	Iterative data (for loops and map functions)	13	Practice loops, etc
At Home			TidyTuesday Plot		
Week 14					
Т	10-Dec		Models part 1 and 2 (many models with broom) - Final presentations (5 students)	14	practice with lots of models
At Home			TidyTuesday Plot		
Week 15					
Т	17-Dec		Final project presentations (10 students)	15	Final project presentations