

Schedule

Course Schedule

Week	Topic	Tools	Reading
1	Structuring Your Data Life	Scripts; R and RStudio; filesystems	
2	Reproducible Data Analyses	Markup; Version Control; Git	
3	Data Structure & Wrangling	Data Formats	
4	Tidy Data	Tidyverse	
5	Flow Control	Loops	
6	Data Visualization I	Grammar of Graphics; ggplot2	
7	Data Visualization II	ggplot2	
8	Midterm Exam (Thursday, October 16)		
9	Social Networks & Network Data	iGraph; statnet	
10	Census Data	tidycensus	
11	Maps & GIS I	sf; tigris	
12	Maps & GIS II	mapgl; mapbox; osm	
13	Accessing & Using Databases	SQL	
14	Project Work		
15	Project Presentations		
F	Finals Week (Project Due)		

Advanced Topics (if we have time)

Week	Topic	Tools	Reading
16	Text Data & Data Scraping		
17	Web Apps & Visualization		

Week	Topic	Tools	Reading
18	AI Pair Programming & “Vibe Coding”		
19	Local LLMs		