

Schedule

Course Schedule

subject to change

Week	Topic	Tools
1	Course Introduction	Scripts; R and RStudio
2	Reproducible Data Analyses	Filesystems; Version Control; Git
3	Data Structure & Wrangling	Markup; 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 External Data	SQL, other APIs
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		

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