Schedule

Course Schedule

subject to change

Week	**Topic**	**Tools**
	Preliminaries	
1	Course Introduction	Scripts; R and RStudio
2	Reproducible Data Analyses	Markup Languages; Quarto
3	File Management & Version Control	Filesystems; git; GitHub
4	A Field Guide to Data	Data Formats; readr; tidyr
5	Structural Data Manipulation	dplyr; srvyr
6	Data Visualization I	Grammar of Graphics; ggplot2
7	Data Visualization II	ggplot2
8	**Core 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**
16	Text Data & Data Scraping	
17	Web Apps & Visualization	quarto, shiny
18	AI Pair Programming & "Vibe Coding"	github copilot
19	Local LLMs	