

# 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; surveys, readr; tidyverse
5	Structural Data Manipulation	dplyr; svyR
6	Data Visualization I	Grammar of Graphics; ggplot2
7	Data Visualization II	ggplot2
8	<b>Core Exam (Thursday, October 16)</b>	
9	Workflow & Data Retrieval	tidycensus; APIs; database/SQL overview
10	Social Networks & Network Data	iGraph; statnet
11	Cartography	tidyverse mapping; color scales; projection
12	Geographic Data	sf; tigris; mapgl; mapbox; osm
13	TBD	TBD
14	Project Work	
15	Project Presentations	
F	<b>Finals Week (Project Due)</b>	

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*Advanced Topics (if we have time)*

Week	Topic	Tools
	Text Data & Data Scraping	
	Statistical Models	
	Missing Data	
	Web Apps & Visualization	quarto, shiny
	AI Pair Programming & “Vibe Coding”	github copilot
	Local LLMs	