			nalytics and Frontier Methods for A	• •	
	Tuesdays and T			10:20 - 11:40am	Berkey Hall 214
Veek	Tuesday	Thursday	Topics	Final Project	Assessments
1	August 26	August 28	Course Introduction		
	Class 1	Class 2	R Basics		
	Lecture	Lecture			
	September 2	September 4	Version Control with GitHub		
2	Class 3	Class 4	R Markdown		
	Lecture	Lecture			
	September 9	September 11	Data Wrangling		Assignment 1 Due
3	Class 5	Class 6	Joining Data		Assignment 1 Due
	Lecture	Lecture			Friday, September 1
	September 16	September 18	Data Tidying with <i>tidyr</i>		
4	Class 7	Class 8	Data Cleaning		
	Lecture	Lecture	_		
	September 23	September 25			
5	Class 9	Class 10	Data Cleaning, Continued		Assignment 2 Due
	Lecture	Lecture	3,		Friday, September 2
	September 30	October 2			
6	Class 11	Class 12	Data Visualization		
	Lecture	Lecture	Data Visualization		
	October 7	October 9	Data Acquisition		
_	Class 13	Class 14	Scraping Static Websites	Prospectus Due Friday,	Assignment 3 Due
7			· ·	October 10	Friday, October 10
	Lecture	Lecture	Scraping Dynamic Websites		
8	October 14	October 16	Function Writing		Assignment 4 Due
	Class 15	Class 16	Vectorization and Paralellization		Friday, October 31
	Lecture	Lecture			
	October 21	October 23	Data Acquisition through APIs		
9	No Class - Fall Break	Class 17	Intro to Programming		
		Lecture	Iteration		
	October 28	October 30	Function Writing		Assignment 4 Due
10	Class 18	Class 19	Vectorization and Paralellization		Friday, October 31
	Lecture	Lecture	Intro to Regression		
	November 4	November 6	Fast Fixed Effects and IV Regression		
11			Tables and Figures from Regression		
	Class 20	Class 21	Output		
	Lecture	Lecture	Causal Inference Methods in R		
	November 11	November 13	Synthetic Control Methods in R		Assignment 5 Due
12	Class 22	Class 23	Introduction to Spatial Data		Friday, November 1
	Lecture	Lecture	Vector Data in R		Triday, November 1
13	November 18	November 20	Raster Data in R		
	Class 24	Class 25	Joining Raster and Vector Data		
	Lecture	Lecture	Spatial Regression Methods		
			Intro to Machine Learning and		
	November 25	November 27	Classification	Poplication Package Des	
14	Class 26	No Class - Holiday	Model Selection and Regularization	Replication Package Due Sunday, November 30	
			Regression Trees and Forest-Based	Sunday, November 30	
	Lecture		Methods		
	December 2	December 4	Machine Learning for		Assissant C.D.
		Class 28	Causal Treatment Effects		Assignment 6 Due
15	Class 27	C1033 20	Caasar recament Enects		Monday, December