

Week	Date	Lecture (11:00am to 12:20pm)	Lab (11:15am to 2:00pm)
1	August 27th (Thu)	Introduction to GIS; Applications of GIS	
2	September 1 (Tue)	Geographic Coordinate Systems & Map Projections; Acquiring Spatial Data	
	September 3 (Thu)		Projections & Choropleth Mapping
3	September 8 (Tue)	Introduction to Mapping, Symbolization & Cartographic Design	
	September 10 (Thu)	Representing geographic space - spatial data types, models, databases & topology	
4	September 15 (Tue)	Spatial data for public health	
	September 17 (Thu)	Geocoding	
5	September 22 (Tue)		Geocoding
	September 24 (Thu)	Spatial analysis 1 - spatial description (mean center, standard distance, etc.)	
6	September 29 (Tue)		Spatial analysis lab 1
	October 1 (Thu)	Spatial analysis 2 - Geary's C, Moran's index, Quadrat counts	
7	October 6 (Tue)	Spatial analysis 3 - Nearest neighbor analysis, gravity models	
	October 8 (Thu)		Spatial analysis lab 2
8	October 13 (Tue)	Spatial analysis 4 - raster data	
	October 15 (Thu)	Midterm: GIS	
9	October 20 (Tue)	Disease mapping I - choropleth maps, small numbers problem	
	October 22 (Thu)	Disease mapping 2 - smoothing, spatial filters, adaptive spatial filters	
10	October 27 (Tue)		Spatial filtering lab
	October 29 (Thu)	Disease clustering 1	
11	November 3 (Tue)	Disease clustering 2	
	November 5 (Thu)		SatScan lab
12	November 10 (Tue)	Analyzing environmental hazards 1	
	November 12 (Thu)	Analyzing environmental hazards 2	
13	November 17 (Tue)	Analyzing access to health care locations - introduction to location modeling	
	November 19 (Thu)	Analyzing access to health care locations - location-allocation models	
14	November 24 (Tue)		Location Allocation Lab
	November 27 (Thu)	NO CLASS - Thanksgiving Break	
15	December 1 (Tue)	Analyzing risk and spread of infectious diseases	
	December 3 (Thu)	Spatial Decision Support Systems (SDSS), PPGIS - applications in public health	
16	December 8 (Tue)	Emerging trends - syndromic surveillance, ontologies, and grid computing	
	December 10 (Thu)	Emerging trends - syndromic surveillance, ontologies, and grid computing	
17	December 12 - 28	Finals Week	