

WEEK	LECTURE	READING	LAB EXERCISE
1	19 Jan Introduction - Cartographic Process (library reference assignment)	Ch. 1	No lab on first week (create ESRI global accounts)
2	24 Jan 26 Jan Map Functions and Types Map Design: Abstraction/Constraints	Ch. 2	ESRI Virtual Campus (Lab-1): <u>The 15-Minute Map: Creating a Basic Map in ArcMap</u> (Please bring a headphone with you)
3	31 Jan 2 Feb Map Projections Generalization Controls and Elements	Ch. 3	Projections for Map Design (Lab-2)
4	7 Feb 9 Remote sensing and GPS Generalization Methods	Imhoff	Cartographic Design (Lab-3) <i>Big Picture Design</i>
5	14 Feb 16 Map Scale and Typography Guest Lecture (Harry Johnson).	Ch.13, ESRI Ch. 4	Cartographic Design (Lab-3) <i>Big Picture Design</i>
6	21 Feb 23 Map Composition and Visual Variables Thematic Map Symbols/ Point symbols	Ch. 4	Cartographic Design (Lab-4) <i>Type Basics (No TA on Feb23).</i>
7	28 Feb 1 Mar AAG Meeting (No lecture on Feb 28), Line and Area Symbols		No TA on Feb 28 – Lab open. Cartographic Design (Lab-4)
8	6 Mar 8 Color (March 8 - Distribute Exam quest.)		Cartographic Design (Lab-5) <i>Effective Type in Map Design</i>
9	13 Mar 15 (Review Exam) Mid-term Exam: March 15 (20 points)	Ch.14	Color Basics (Lab-6) Color Basics (Lab-6)
10	20 Mar 22 Graphing	Ch. 17	Color Basics (Lab-6) Topographic Map Exercises (7)
11	27 Mar Spring Break (No Classes, No Labs)		No Labs
12	3 Apr 5 Data Processing	Ch. 5	Topographic Map Exercises (7)
13	10 Apr 12 Choropleth mapping	Fisher, Evans Ch. 6	Choropleth Mapping ONE (8)
14	17 Apr 19 Dasymetric mapping		Choropleth Mapping TWO (9)
15	24 Apr 26 Mapping Uncertainty and GIS Internet Mapping and Multimedia	Buttenfield	Choropleth Mapping THREE (10)
16	1 May 3 Map Use and Misuse	Ch. 16	Choroplethic Mapping THREE (10)
17	8 May Final Exam (25 points) 7:50am-9:00am		
	10 May All Missed Labs Due Date (by 5pm to the Instructor's mailbox -- TSOU)		

Additional Readings: (located in Y:(Twister_g381)/readings folder. in SAL lab)

Brewer, C. A. 1994 Color Use Guidelines for Mapping and Visualization. In MacEachren, A. M. and Taylor, D.R.F. (eds.) *Visualization in Modern Cartography*. New York: Elsevier: 123-147.

Buttenfield, B. P. 1999 Visualizing Ecological Uncertainty. Chapter 6 in Hunsaker, C., Goodchild, M.F., Friedl, M. and Case, T. (Eds.) *Uncertainty in Spatial Data for Ecological Analyses*. New York: Springer-Verlag.

ESRI. (2009). *Maplex for ArcGIS*. An ESRI White Paper. Redlands, California.

Evans, I.S. 1977 The Selection of Class Intervals. *Transactions, Institute of British Geographers*, 2: 98-124.

Fisher, W.D. 1958 On Grouping for Maximum Homogeneity. *Journal of the American Statistical Association*, vol. 53(Dec): 789-798.

Imhoff, E. 1975 Positioning Names on Maps. *The American Cartographer*, vol. 2(2): 128-144.