WEEK	ТОРІС	READINGS	ASSIGNMENTS
WEEK 1 Tuesday: Jan 16	Lesson 1 Introduction to GIS & Cartography Course introduction, Class procedure and objectives Review of syllabus content	Chapter 1: An Introduction to GIS From: GIS Fundamentals., 3/E or 4/E Authors: Paul Bolstad	
WEEK 2 Tuesday: Jan 23	Lesson 2 Principles of Cartographic Design Essential Map Elements Basic Symbology Visual Hierarchy & Balance Scale Generalization	Available on Blackboard Chapter 11: Elements of Cartographic Design From: Thematic Cartography & Geographic Visualization, 2/E Authors: Slocum, McMaster, Kessler, Howard Chapter 6: Scale & Generalization From: Thematic Cartography & Geographic Visualization, 2/E	Assigned: Homework 01 Assigned: Map Critique
WEEK 3 Tuesday: Jan 30	Lesson 3: PRACTICUM 1 (Cartography) Principles of Cartographic Design Essential Map Elements Basic Symbology Visual Hierarchy & Balance ATTENDANCE REQUIRED	Same as for Week 2	Due: Practicum Lab, Friday Feb 2 (additional days from Practicum for "spit and polish") Due: Map Critique First Posting
WEEK 4 Tuesday: Feb 6	Lesson 4 Thematic Mapping & Data Classification Spatial Distribution of Data Choropleth Mapping Proportional Mapping Density Mapping Data Classification Schemes for thematic mapping	Available on Blackboard Chapter 4: Principles of Symbolization & Chapter 5: Data Classification From: Thematic Cartography & Geographic Visualization, 2/E "When Maps Lie," The Atlantic CityLab. http://www.citylab.com/design/2015/06/when-maps-lie/396761/ Author: Wiseman	Due: Map Critique Response Posting
WEEK 5 Tuesday: Feb 13	Lesson 5 Coordinate Systems Categorizing Projections: Class, Case & Aspect Distortion Projection Properties Choosing an Appropriate Map Projection Projections demo in ArcMap	Chapter 3: Map Projections & Coordinate Systems From: GIS Fundamentals., 3/E or 4/E Authors: Paul Bolstad	Due: Homework 01 (Hand-in start of class)

WEEK 6 Tuesday: Feb 20	Lesson 6 Databases & Geospatial Modeling DBMS & Relational Databases Querying & Linking Spatial Data Data Management in ArcGIS Metadata The Modeling Process	Chapter 2: Data Models From: GIS Fundamentals., 3/E Authors: Paul Bolstad Chapter 8: Attribute Data and Tables From: GIS Fundamentals., 3/E Authors: Paul Bolstad	Assigned: Homework 02
WEEK 7 Tuesday: Feb 27		Quiz 1	
WEEK 8 Tuesday: Mar 6	Lesson 7 Capturing Spatial Data Organizing the Data Collection process Data Capture Data Transfer Topology Data Quality: Accuracy & Precision Error: Sources, Recognition & Solutions	Chapter 4: Maps, Data Entry, Editing & Output From: GIS Fundamentals., 3/E Authors: Paul Bolstad Chapter 14: Data Standards & Data Quality From: GIS Fundamentals., 3/E Authors: Paul Bolstad	Due: Homework 02
March 12-16		SPRING BREAK!	
WEEK 9 (OSM) Tuesday: Mar 20	Lesson 8: Open Source GIS Open Source GIS Concepts Open Source GIS Software's Open Street Map Introduction to USAID project	Instructor will provide readings on this topic (Will be posted on Blackboard)	
WEEK 10 (OSM) Tuesday: Mar 27	Lesson 9: Open Source GIS Practical Training USAID Briefing Learn to work with iD editor ATTENDANCE REQUIRED	Same as for Week 9 *Mapping Party Friday, March31st	Assigned: OSM Project Assigned: GIS Proposal

WEEK 11 Tuesday: Apr 3	Lesson 10: PRACTICUM (Data Management in ArcGIS) Data Management in ArcGIS Data Capture Data Transfer Projection information ATTENDANCE REQUIRED	Chapter 4: Maps, Data Entry, Editing & Output From: GIS Fundamentals., 3/E Authors: Paul Bolstad Chapter 14: Data Standards & Data Quality From: GIS Fundamentals., 3/E Authors: Paul Bolstad	Due: OSM Project Due: Practicum 02 (Friday, Apr 6)
WEEK 12 Tuesday: Apr 10	Lesson 11 Vector Analysis & Geoprocessing Queries Proximity Functions Geoprocessing	Chapter 9: Basic Spatial Analysis From: GIS Fundamentals., 3/E Authors: Paul Bolstad Chapter 10: Topics in Raster Analysis From: GIS Fundamentals., 3/E Authors: Paul Bolstad	Assigned: Homework 03 Due: Two GIS Proposal Ideas (we will discuss in class)
WEEK 13 Tuesday: Apr 17	Lesson 12: PRACTICUM 3 (Cartography Workshop) Cartography Workshop Essential Map Elements Basic Symbology Visual Hierarchy & Balance Choropleth Mapping ATTENDANCE REQUIRED	Available on Blackboard Chapter 11: Elements of Cartographic Design From: Thematic Cartography & Geographic Visualization, 2/E Authors: Slocum, McMaster, Kessler, Howard Chapter 6: Scale & Generalization From: Thematic Cartography & Geographic Visualization, 2/E Authors: Slocum, McMaster, Kessler, Howard	Due: Homework 03 (Hand-in start of class) Due: Practicum 03 (Friday, Apr 20) Assigned: Homework 04 (Challenge Assignment
WEEK 14 Tuesday: Apr 24	Lesson 13 Web Mapping Introduction to web mapping Web mapping demo with Carto	Instructor will provide readings on Web Mapping (Will be posted on Blackboard)	Due: Homework 04 (at the beginning of class) Due: GIS Proposal

EXAM WEEK

Quiz 2 (Exam Week)

The Final Quiz (Quiz 2) for GEOG6304 will be scheduled by the Office of the Registrar, by the third or fourth week of class. The date will be announced in class. It is <u>your</u> responsibility to make sure that you do not have a time conflict with another subject.

^{**}Class material/schedule subject to change.