

EnvSci 360 – Computer and Analytical Cartography Spring 2017

- Final Project Guidelines -

Create **one** of the following:

- A **poster-size (E-size, 34 x 44 inches) layout**, saved as a PDF file.
- A **Map Series** of letter-size (8 x 11 inches) layouts. At least five (5) layouts would be required. Save the maps as PDF files. “Data-driven pages” in ArcMap could be used for this option.
- A **Map Animation**. This could be a time series animation in ArcMap (if using 2-D data) or, if you are using 3-D data, a “fly through” using ArcScene or ArcGlobe. Animations should be exported to a video format. See <http://desktop.arcgis.com/en/arcmap/latest/map/animation/what-is-an-animation.htm> as a starting point for details on this functionality.
- An **ArcGIS Online map application**. First you would create the web map(s), and then create an application based on the ArcGIS Online templates, such as a Story Map.

All Students:

Present your project to the class, explaining the topic, data collection and cartographic techniques and decisions as appropriate. Presentations will be held on Wednesday, May 10, 2017, beginning at 5:30 PM in room S-3-20. (This is our last day of class). Presentation can make use of any combination of PowerPoint, ArcGIS Desktop and/or a Web browser (if using ArcGIS Online). Each student’s presentation should be 10-15 minutes. All students should attend the presentations and comment and critique classmates’ work; this will count toward the ‘participation’ component of your final course grade.

General Guidelines:

- The topic (i.e., what you map) is up to you, but each project must include data symbolized **qualitatively and quantitatively**, utilizing the various symbology options available in ArcMap.
- Along with the thematic aspects of the maps, include reference or base map data, symbolized appropriately.
- Use the principles of “good cartography” that we have discussed during the semester (for creating legends, symbols, labeling, use of color, etc.). Since there is no final exam, I will consider how well your maps conform to these principles as part of your grade.
- PDF documents, videos and any other files should be emailed to michael.trust@umb.edu or posted to Dropbox, Google Drive, or some other file sharing site if too large to email.
- ArcGIS Online applications and their data must be published to the UMB ArcGIS Online account.

All deliverables are due by the end of the presentations on Wednesday, May 10, 2017.