GIS Final Project Components

Presentation date: Tue 9 MAY 2017 @ 6:00- 9:00pm

1. **Compelling inquiry question** that you find relevant (to work, life, society, etc.) and interesting (*e.g. Why do the state crash data suggest that more accidents actually occur on side streets rather than main arteries?*)

2. **Working theory** about what you think is going on in the world . (*e.g. more bike crashes occur on side roads because there are more obstructions to the sight of bikes by cars*)

3. A defined **study area** with contextual data visualized in that area with data from the US Census and the American Community Survey. Choose a few ACS estimates that are relevant (occupation by industry, unemp. rate, etc.)

4. **Assembled data sets that speak to your inquiry.** If you have a *super duper source*, then a single data set is great. You may need a few different sets to throughly investigate your question. ('assembled' means cleaned, vetted, and loaded into a map and visualized in a rudimentary way)

5. **Visualization of a few analysis techniques** using your data which shed light on your inquiry question. (e.g. Buffer analysis with color-coded results; Spatial joins that involve doing some math on the combined features, etc.)

6. A **neat and tidy project directory** that includes:

   a) A map file (.mxd) with only useful layers remaining, and the layers have logical names and symbol labels
   b) A file geodatabase with all relevant data that is organized with descriptive filenames
   c) A **work log** with detail sufficient to continue work on the project a year from now without tearing your hair out

7. **Some kind of written discussion of what your data say about the inquiry question.** This could be annotations on a map/poster, an online story map, or a formal paper. This component should reveal some solid thought flowing from spatial investigations. Feel free to raise more questions and—*please*--be completely straightforward about what conclusions *cannot* be drawn from the data. We aren't doing controlled trials or statistical analysis so drawing causal links will likely be hard. This doesn't have to be *long*, just *thoughtful*.

8. Some kind of **online display of the data**, using either ESRI online or CartoDB, etc.

9. **A discussion of the core skills you developed** while working on this project and some reflecting on how you worked through any challenges you encountered. Your audience is future GIS students! Once again—a paragraph is fine.

10. **Source notes/annotations** for your data and a few background sources. Please address what the licenses are on the data you used (for others who might want to use your data, too). Also, please list a few **secondary sources** (reports, articles, etc.) that discuss your topic and a sentence or two about why anybody would want to read that source.

11. **A prepared way to share your project and findings with the class**. Please avoid a slide deck at all costs (i.e. a PowerPoint). Bring some questions to discuss. Have your web product ready. Plan on 20 mins ish (discussion included).