

Independent GIS Project 2: Travel Map

Objective: Make a map that shows travel route and distance from your house to the university on top of a black & white quad sheet.

Suggested Steps: (this is one approach that works, however, you may use any approach you like)

- Go the NYS GIS Clearinghouse site and download the quad sheet that contains your house, and the one that contains the university (use address 1400 Washington Ave). If this requires more than 2 sheets, then map from your house to the nearest high/middle/elementary school.
- Click on www.nysgis.state.ny.us – GIS Data – Raster Imagery – 1:24,000 Digital Raster Quadrangles. The file name might be something like s48plan.tif.
- Create an empty shapefile with polyline feature type (see chapter 6) (or create geodatabase).
- Import the projection information from one of the quad sheets (UTM meters).
- Draw a line(s) connecting your house with the university (digitize the route you travel on screen).
- Export to geodatabase file to get shape length (or do all work in a geodatabase).
- Make a map showing the two locations, the most appropriate route connecting them, and give total distance (you can put text directly onto your view using the Draw Toolbar).
- Label the major roads and anything else that might be helpful.
- Print the map only (not the legends) using either File-Print or File-Export Map which lets you save the jpg.

A sample map can be found on the class webpage at www.albany.edu/mc969295/GIS.html . This is a full map done using map layout, you will only do the part in the view window since we have not yet learned how to work with layouts.

Hand in your final map (8½ by 11 inch color print). The map will be graded based on the following criteria:

- Did you include all the requested items?
- Overall quality of your map (visual appeal, legibility, information display).