GIS 463
GIS Applications (Independent Study)
3 Credits, Spring 2019
Jacob Bellows

Instructor: Dr. Daniel R. Unger  
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Department: Forestry

Office Hours:  
Monday, Wednesday: 10:00-12:00;  
Tuesday, Thursday: 9:00-12:00.

Objective: Develop, via an independent study, a GIS analysis of environmental site conditions relative to their impact on the environment.

In particular:

1. Use GIS to create spatial layers relative to earth surface features in relation to their impact and importance on environmental impact factors.

2. Use GIS and remote sensing technology (high spatial resolution imager and drone acquired data) to relate raster data to the GIS created vector data.

3. Analyze the created GIS vector data, compared to the remotely sensed data collected, and analyze the database for correlations and impacts on environmental impact factors.

Assignment: Your goal is to meet with Dr. Unger on a weekly basis for guidance and suggestion. In particular, and per item listed above, you will:

1. Complete each sub project as assigned.

2. Prepare a poster for each project depicting what you discovered in a conference ready format.

3. Prepare a manuscript for each project depicting what you discovered in a “ready to submit” for publication format.

Grading: Your grade will be based on an analysis of your ability to meet the following:

- completion of each project
- completion of each poster
- completion of each manuscript