

## **GEOG503A Lab 3**

Complete **Exercise 2** and **Exercise 3**. All data needed for the exercises can be found in the **data** folder.

### **What to submit:**

#### **Exercise 2: (20 pt.)**

Complete the challenge exercise on page 30:

- The Toolbox that contains Soil Analysis ModelBuilder
- The Python script soil.py

#### **Exercise 3: (20 pt.)**

Use **Python Window** and **zipcodes.shp** to perform the following tasks:

1. Select features with “Name”=’AUSTIN’
2. Copy and save the selected features as a new Shapefile
3. Get and print the total number of rows for the new Shapefile
4. Calculate the SUM and MEAN for the field [SHAPE\_AREA] for the new Shapefile.
5. Save the codes to a Python script: Austin.py

File name convention for assignment submission:

**lastname\_firstname\_lab3.zip**, which includes the toolbox, soil.py, and Austin.py.