

# Geographic Information Systems (GIS)

## Assignment 2

### Objective:

Create a USA Map that compares Total Carbon Dioxide Emissions (per capita) and Total Energy Consumed per Capita (million Btu) for year 2014 using graduated symbols and colors. The Shapefile and data is provided on course website.

### Data:

1. USA State Shapefile template
2. Total Carbon Dioxide Emissions (million metric tons)
3. Total Energy Consumed per Capita (million Btu) for year 2014
4. USA State Population year 2014

### Methodology:

Use Add data button for adding USA State Shapefile and Excel data in ArcMap. Join the Excel data to Shapefile using same unique identifiers (Common field).

### Map output and submission:

Use Landscape page setup. Use proper color ramp and graduated symbols to show both variables. The map should include the following:

- Title
- Main map (Should cover 70-80 percent of page area)
- Legend (Use up to 2 decimal units)
- Scale
- North Arrow
- Your name and date

Export the map in “pdf” format. The pdf file should be name as “Firstname\_assignment2.pdf”. The final pdf map should be uploaded on Google Drive.