

Day 06 - Activities: Spatial Analysis

Lecture (in class):

- Lecture 6: Spatial Analysis (PDF)
- Demonstration:
 - Wind Farm Site Analysis
 - Video: [Clip, Erase, Intersect, and Union in ArcPro](#)

Lab (in class):

- ArcGIS Pro Tutorials
 - Tutorial 6a: [Geoprocessing Toolbox: Invasive Weeds](#)
 - Tutorial 6b: [Are there any places in the city to build a mixed-use development?](#)
 - Tutorial 6c: [Are liquor stores too close to schools, libraries, and parks?](#)

Reading (Homework):

- ArcGIS Book - Chapter 05: The Power of Where
 - [English version](#)
 - [Chinese version](#)
- [The Language of Spatial Analysis](#) (pp. 21-32)
- ArcGIS Pro Documentation:
 - [Buffer analysis](#)
 - [Overlay analysis](#) (ArcMap)
 - [An overview of the Overlay toolset](#)
- GIS - An Introduction (McHaffie and Hwang, 2019)
 - Chapter 4 - Geospatial Analysis (pp 77-84)
- Essentials of GIS (Campbell, 2011)
 - Chapter 7 - Geospatial Analysis I: Vector Operations (pp 167-184)

Homework:

- Complete Tutorial 6b **or** 6c (above) using one of the following softwares:
 - ArcMap **or** ArcGIS Online **or** QGIS
- Story Maps - Begin: [Create a Story Map Cascade](#) (San Diego):
 - Start the Cascade Builder,
 - Configure the cover for your Cascade
 - Add some introductory text and photos
 - Add a map
- Read: [Getting to Know the New Story Maps](#)

