

Field Work in “Regular” Classes

Provide an online or “from your window” alternative

Examples:

Local graveyard study, OR findagrave.com

Local park to birdwatch OR observe birds that pass by your home

Keep in mind that even minimal expectations for “field” access may not be realistic for some of our students

Focus on Learning Outcomes

Field Project:

- Design field strategies for data collection to evaluate a hypothesis
- Collect field data using disciplinary standards (methods, terminology, symbology)
- Analyze and interpret field data
- Communicate results to an audience using disciplinary terminology and standards (statistics, etc.)

Field Trip:

- Participate in a guided tour of relevant field locations
- Observe features of the location and draw conclusions using disciplinary knowledge
- Apply prior knowledge to a novel setting/draw connections to course content

Remote Data Collection

- Google Earth, ESRI ArcMap
- Aerial Photographs, Maps
- Virtual landscapes
- Video recorded replacements (sample acquisition/field methods, animal behavior) such as the Journal of Visualized Experiments (jove.com)

https://nagt.org/nagt/teaching_resources/field/designing_remote_field_experience.html

<https://earthengine.google.com/timelapse/>

<http://www.see.leeds.ac.uk/virtual-landscapes/>

<https://www.jove.com/v/10002/analysis-of-earthworm-populations-in-soil>

<https://www.jove.com/v/61279/streamlined-sampling-cultivation-pelagic-cosmopolitan-larvacean>

Remote Field Trips

- Panoramic imagery
- Google Earth
- Story Maps

<https://tourbuilder.withgoogle.com/>

<https://earth.google.com/web/@38.51046688,-78.25665862,349.16758842a,83138.43614186d,30.00000011y,359.99999905h,0t,0r/data=MicKJQojCiExZmRDVU5wQWw2cGUyUE53SmxaeUxudDFxMVIIUW1sQUQ>

<https://storymaps.arcgis.com/stories/79348b0fd4474d8c87819dc95ef36c1e>

<https://www.google.co.uk/maps/about/behind-the-scenes/streetview/treks/petra/>

<https://www.google.com/maps/about/treks/#/grid>