1/7-11 Introduction to Landscape Ecology

Required readings


Further reading


Exercise 1. A cursory look at selected landscapes via Google Earth

This purpose of this exercise is to get you thinking about how to identify, describe and analyze landscapes from an ecological perspective. You will also begin to familiarize yourself with the Burton Mesa of western Santa Barbara County, which will serve as our case study landscape for the class.

- Week 1 slides
- Lab_notes
- 1/14-18 The biophysical template

Required Readings


Further Readings


Exercise 2. Physical environmental controls on land cover pattern

- Field trip, 1/26/19 - Burton Mesa
- Readings for Exercise 2
- Week 2 Class Notes
- 1/22-1/26 Disturbance Regimes
Required Reading


Further reading


Exercise 3: Quantifying Landscape Pattern

Readings for Exercise 3

Week 3 Notes

1/28-2/1 Ecological edge effects

Required Reading


Further Reading


Exercise 4: Edge and road effects in the landscape

Readings for Exercise 4

2/5-2/10 Road network ecology

Required Reading


Further Reading


Exercise 5: Modeling species habitat connectivity across the landscape

Readings for Exercise 5
2/11-17 Populations, metapopulations and metacommunities

Required reading


Supplementary Reading


Exercise 6: Designing wildlife corridors in human-dominated landscapes

Assignment

2/18-24 Ecosystem processes and services

Required reading


2/25-3/3 Urbanizing landscapes

Required reading


3/4 - 3/10 Landscapes in a changing climate

Required reading


- 3/11-3/17 Landscape restoration

**Required Reading**


- 3/18 - 3/22 Exam week

ESM 215 has no final exam.

- March 25 - March 31