

EnvSci 22.1

Goals

- * Describe approaches to biodiversity conservation
- * Compare marine protected areas and the theory of island of biogeography
- * Describe goals of hotspot identification and conservation
- * Identify goals of community conservation

Plan

Discussion question: Why does fragmentation of habitat matter? (10 min)

Video: Forest fragmentation and biodiversity (5 min)

Approaches to conservation (10 min)

Species biodiversity

ESA, CITES, IUCN

Legal protections, limitations on habitat destruction

NEPA

Environmental impact statements/assessment

Parks/ecosystem conservation/biodiversity

Marine protected areas and refugia (10 min)

Is the theory consistent with the theory of island biogeography

Video: Marine protected areas (10 min)

Discussion question: What is the good and bad part about refugia?

Biodiversity hotspots (5 min)

Video: Biodiversity hotspot, case study California (5 min)

Community, NGO, and Governmental conservation (5 min)

Video: Indonesia makes progress to finance biodiversity conservation (5 min)

Environmental equality and biodiversity conservation (10 min)

Video: Developing a pro-poor, sustainable bushmeat harvesting model in cameroon. (5 min)

Ensci 22.2

Goals: Research a national park in North America, contrast this land with other parks and compare the pros and cons to one park over another.

Plan:

Students will research a national park (parks selected at random)

Rubric below: Students will frame it as an advertisement for the park, highlighting the many great things the park can offer and what species are protected within the park.

They will contrast this with a different park, give a sales pitch for why someone should their park and not another.

National Park Presentation: Due Jan 21st

Purpose: To research and national park and present in the style of an advertisement. Why should people come visit your park? What makes you different from another park one could visit and why is yours "better"?

Format: Google Slides presentation

Information to research (extra information can be enrichment, but this is at a minimum):

- Where is it located?
- How large is it?
- When was it designated as a park?
- Approximately how many visitors does it get yearly?
- What biome(s) is/are present? (forest, desert, tundra, grassland, etc.)
- What native organisms would you likely see? (at least three different plants and three different animals)

- Include a “sales pitch” and a catch phrase or slogan you made about your park (cannot be one that is currently being used...be creative)
- Include at least three pictures from your park to illustrate what it is all about
- Contrast your park with another one in the United States. You want to make your park look good, so give reasons based on evidence as to why the rival park should not be visited but yours should.

General:

- Spelling and grammar (two mistakes at a minimum before you start losing points)
- All members of the group taking an equal role in putting together slides and presenting to the class
- Slides should be easy to read and clear in presentation
- Cite at least three sources (cannot be wikipedia)

Ensci 22.3

Goals: Finish research and put together a slide show about the national park each group will present on (due next week)