**Class Proposal for InTeGrate Conference**

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*Beaches, Bays, and Boats: A Sociological Perspective*

Upper level undergraduate

**Draft of Syllabus Outline**

Topics will be covered from both an environmental science and a sociological perspective.

The basic thought process to this course is:

1. Why was a product, process or behavior begun?
2. When did knowledge that the product, process or behavior was problematic become available?
3. Did this knowledge indicate change was needed to solve problem?
4. What was the response to this new knowledge from the social institutions down to the individual?
5. What might each of us do to help rectify the problem?

*Topics covered*

* Beaches
  + Barrier islands
    - Temporary nature of
    - Protection of shoreline
    - Sea turtle hatchery
      * Problems with night lights
      * Laws put in place to have ‘lights out’ and the human response to the law
    - Effects of construction on
      * Effects of natural disasters on habitat (man, animal, and plant)
      * Choices made by individuals and communities to rebuild or not
      * Changes in laws or building codes
        + Response to such
  + Mangrove shore estuaries
    - Functions of for sea life
    - Effects of removal on shorelines
    - Reasons/justifications for removal of
    - Problems due to invasive species
      * Removal of invasive species
    - Choices made by homeowners and communities to
      * plant only native species vs invasive ornamentals
      * remove all non-natives
    - Changes in laws
      * Response to such
  + Example of possible resource types
    - <http://www.aoml.noaa.gov/ocd/ocdweb/docs/MARES/MARES_FKDT_ICEM_20130913_Appendix_Mangroves.pdf>
    - <http://www.jcronline.org/doi/abs/10.2112/09-1185.1?code=cerf-site>
    - <http://www.habitat.noaa.gov/abouthabitat/barrierislands.html>
* Bays
  + Mangroves
    - See above
  + Pollution factors
    - Boat
      * Litter and human waste products
      * Oil and gas pollution of waterways
    - Domestic and agricultural run-off
      * Nitrogen, pesticides, fecal coliform, etc.
    - Dead zone in Gulf (also occurring in other areas?)
    - Effect on fisheries
  + Salt-water intrusion
  + Example of possible resource types
    - Sustainable Water and Environmental Management in the California Bay-Delta
    - <http://www.aoml.noaa.gov/ocd/ocdweb/docs/MARES/MARES_FKDT_ICEM_20130913_Appendix_Mangroves.pdf>
    - <https://serc.carleton.edu/microbelife/topics/deadzone/index.html>
* Boats
  + Kayak, flat bottom, pontoon to yacht and cruise liner
    - Pollution factors
      * Litter and human waste products
      * Oil and gas pollution of waterways
      * Damage to sea creatures/ habitat (propellers and manatees; snorkeling and reefs)
  + Example of possible resource types
    - <https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/291508/scho0612buwh-e-e.pdf>
    - <https://www.theguardian.com/sustainable-business/2015/jan/05/cruise-ship-holidays-environmental-impact>