Learning Objectives

- Understand basics of coastal processes
- Know principles of coastal zone management

Required Texts:
Readings: Several papers on Reserve and on Gauchospace. Read them all

Schedule.

Block 1: 7 weeks; Readings- Griggs et al. Chapters 1-5 and 17
Coastal Processes (not necessarily in order we discuss them)
- Classification of Coastlines
- Waves: origin propagation; types; power; breaking; refraction
- Longshore transport; beach drift; longshore draft; indicators of drift
- Shore zone basic processes and terms: factors affecting the beach & shore; beach terminology; storm-swell cycle; beach slope; inlets
- Near shore cell circulation: edge waves; beach cusps; rip currents
- Littoral cell and wave climate

Block 2: (3 weeks); Griggs et al. Chapters 6-8
- Coastal hazards: erosion, storms, tsunami
- Coastal Zone Management

Midterm: Wednesday May 16
Final: Thursday, June 11, 12 Noon – 3:00 PM (30%)
Field Project: Beach walk log/map/report, due June 11th at 12 Noon (40%)
Homework Problems 10%