Objectives:
This course covers the topics on how waves are developed, travel and break on the shore, sediment transport, and depositional and erosional landforms. Field projects will include calculation of wave run-up, wave impact heights, beach and nearshore sediment volumes, sediment budgets, seasonal changes in the beach, and impacts of engineering structures.

Course outline:
Sept.  8    Intro to beach morphology and sediments/ monitoring techniques (D,W)
         11    FIELD TRIP (D,W)
         15    Wave processes (W)
         22    Wave processes (W)
         29    Waves and currents, short-term water level change (W)
Oct.    6    Beach profile evolution and sediments, long term water level change (W,D)
         13    Classification of coasts, coastal settings (D)
         16    FIELD TRIP (D,W)
         20    Plate tectonics, rocky coast processes and landforms (D)
         27    Bluff dynamics Great lakes and marine (D)
Nov.   3    Landforms of accretionary coasts – spits, bars, barriers (D)
         10    Coastal structures (W)
         13    FIELD TRIP (D,W)
         17    Coastal management issues (Invited speakers)
         24    No class – project work only
Dec.   1    Student presentations
         8    Student presentations
         15    Student presentations
         21    FINAL EXAM 7:25 am Tuesday

Grading: Grades will be based on the following:
Homework 30%
Final exam 30%
Final project (web site and oral presentation) 40%

Time and location:
Wednesday: 1:20-3:15 pm, @ 212 Weeks Hall.
- Early party of the semester is lecture format. The remaining part of the semester is seminar format.
- Field trips: September 11, October 16, and November 13.

Textbook:
Other references:

- Houghton, J.T. 1997, Global warming, the complete briefing. C.U.P.
- May, V. J. and Hansom, J. D. 2003, The Coastal Geomorphology of Great Britain. GCR Series No. 28, Joint Nature
- Trenhaile, A.S. 1997, Coastal dynamics and landforms, Oxford University Press.