COURSE DETAIL

COASTAL PROCESSES AND MANAGEMENT
Country Australia
Host Institution University of Queensland
Program(s) University of Queensland
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Environmental Studies
UCEAP Course Number 115
UCEAP Course Suffix
UCEAP Official Title COASTAL PROCESSES AND MANAGEMENT
UCEAP Transcript Title COAST PROCESS &MGMT
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course analyzes coastal zone management. Lectures cover waves in the ocean and calculation of properties such as wavelength from the parameters of wave period and water depth; surf zone processes and coastal groundwater: wave setup, wave run up, rip currents, and long shore currents; how the processes of saltwater intrusion into agricultural areas are generated and managed; sea level rise, the Bruun rule, and coastal sediment budgets; constitutional and legislative frameworks looking at the State of the Marine Environment Report; and evolution of integrated coastal zone management in Australia. Case studies are used to examine specific issues in Australia. The Barrier Island case study looks at geomorphic and ecological characteristics and processes, land use and development history, and contrasting approaches to management. The Venice case study examines environmental history, coastal structures, catchment impacts and management, resource exploitation, coastal subsidence, storm surge, ecological and engineering solutions, and sustainability. Students also participate in field trips to the Gold Coast and the Port of Brisbane.

Language(s) of Instruction
English

Host Institution Course Number
ENVM3200

Host Institution Course Title
COASTAL PROCESSES AND MANAGEMENT

Host Institution Course Details
http://www.courses.uq.edu.au/student_section_loader.php?section=1&profileId=691...

Host Institution Campus
Queensland

Host Institution Faculty

Host Institution Degree
Host Institution Department Environmental Management
Course Last Reviewed 2022-2023

Print