COURSE DETAIL

SEDIMENTARY SYSTEMS
Country New Zealand
Host Institution University of Auckland
Program(s) University of Auckland
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Earth & Space Sciences
UCEAP Course Number 151
UCEAP Course Suffix
UCEAP Official Title SEDIMENTARY SYSTEMS
UCEAP Transcript Title SEDIMENTARY SYSTEMS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This is an advanced course that critically examines sedimentary systems from the mineral to basin scale. Reconstruction of sedimentary environments utilizes a multi-proxy approach, incorporating facies analysis, taxonomy, paleoecology, taphonomy, geostatistics and sequence stratigraphy. Real-life case studies also show how hydrocarbon systems work in a sedimentary system context. A one-day field trip to One Tree Point and a series of lab exercises are used for in-depth class research projects, and hands-on experience of sedimentological research. Given that 75% of exposed rocks on Earth's surface are sedimentary in composition, the ability to interpret them is significant for any practicing Earth Scientist. This advanced course uses research-led teaching to critically examine an array of ancient sedimentary environments from the geologic record.

Language(s) of Instruction
English

Host Institution Course Number
EARTHSCI 303

Host Institution Course Title
SEDIMENTARY SYSTEMS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Earth Sciences

Course Last Reviewed

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