

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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Earth Sciences

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