# COURSE DETAIL

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