

# Course Outline (Higher Education)

<b>School:</b>	School of Science, Engineering and Information Technology
<b>Course Title:</b>	ADVANCED FIELDWORK
<b>Course ID:</b>	SCGEO3109
<b>Credit Points:</b>	15.00
<b>Prerequisite(s):</b>	(SCGEO1102 or SX511) (SCGEO2107)
<b>Co-requisite(s):</b>	Nil
<b>Exclusion(s):</b>	(SX732)
<b>ASCED Code:</b>	010703

## Description of the Course :

Advanced fieldwork provides students with the opportunity to observe the geology in an area whose geology is markedly different to that accessible to us in eastern Australia. This course is typically undertaken at an international location of complex geology, and students undertake a range of tasks, including mapping, research activities, mine and other site visits to places of specific geological interest to undertake activities. This course not only exposes students to unique geology in a remote location, it also gives students the opportunity to experience other cultures, and mix with geoscientists in those locations.

**Grade Scheme:** Graded (HD, D, C, etc.)

## Work Experience:

No work experience: Student is not undertaking work experience in industry.

**Placement Component:** No

## Program Level:

AQF Level of Program						
	5	6	7	8	9	10
<b>Level</b>						
Introductory	■	■	■	■	■	■
Intermediate	■	■	■	■	■	■
Advanced	■	■	✓	■	■	■

## Learning Outcomes:

This course aims to give students the opportunity to apply their geological knowledge and skills in a novel and complex environment, typically overseas. The specific geological concepts explored will vary depending on the region visited.

### Knowledge:

**K1.** Examine and analyse the broad geological evolution of a specific region

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- K2.** Examine and discuss some of the threads connecting the physical environment to the biological and human occupants of the region selected

## Skills:

- S1.** Demonstrate high level rock identification and description skills
- S2.** Investigate complex and unfamiliar geological environments to compose quality geological maps and reports
- S3.** Plan and execute the logistics of professional travel to a distant (in some cases, international) location
- S4.** Demonstrate high level interpersonal and communication skills working as a professional geoscientist

## Application of knowledge and skills:

- A1.** Analyse and interpret geological history from observed geology
- A2.** Investigate areas of complex geology and produce sound reasoned arguments in support of their geological interpretations
- A3.** Adapt their understanding of geology to novel geological environments
- A4.** Recognise and undertake appropriate professional conduct in relation to their peers, staff and others

## Course Content:

Topics may include:

- Content will vary according to the region visited; typically may include geomorphology, regional geology, tectonics, sedimentary, igneous and/or metamorphic studies, economic geology, environmental geology, palaeontology and mine geology
- Geological mapping, as appropriate

## Values:

- V1.** Recognise the importance of a sensitivity to the sensibilities of the local people when conducting professional activities.
- V2.** Display sound judgment in their interactions with others, in relation to health, safety and well-being

## Graduate Attributes:

FedUni graduate attributes statement. To have graduates with knowledge, skills and competence that enable them to stand out as critical, creative and enquiring learners who are capable, flexible and work ready, and responsible, ethical and engaged citizens.

Attribute	Brief Description	Focus
Knowledge, skills and competence	This course provided students with the opportunity to apply and extend their current knowledge of geology in a complex setting, typically overseas in setting culturally different to that in which they are used to operating. This course provides a unique opportunity to see geology as a truly global science, and to inspire an interest in further their knowledge in this field.	High

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Attribute	Brief Description	Focus
Critical, creative and enquiring learners	In this course, students are expected to manage their own personal travel affairs, and ensure they operate safely and cohesively in an unfamiliar setting. While supported by staff on this field course, students have the opportunity to build their self confidence and self reliance through interacting with locals, and managing many of their own travel arrangements, meals and schedules.	High
Capable, flexible and work ready	Advanced fieldwork provides students with an opportunity to travel to a remote location, typically in another country, to investigate the geology. The course also provides students with a cultural experience and highlights the role of scientists around the globe. Students see first hand how the role of a geologist is many faceted, and how vital it can be for society.	High
Responsible, ethical and engaged citizens	Students experience first hand how humans and the natural environment are intimately connected, both geographically and economically. This course provides them with opportunities to observe different cultures and attitudes and appreciate the important role scientists play in society. Students engage with local people and experience a range of unfamiliar customs and ways of life, and have opportunities to contrast their own experience with that of others.	High

## Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1, K2, S2, S4, A2, A3	Literature review and presentation	Report and presentation	30-40%%
K1, K2, S1, S2, A1-A4	Field exercises including Geological maps and associated reports	Written report with map and cross section, mine visit reports, stratigraphical columns	20-50%
K1, S1, S2, A1, A2, A3	Field notes: each student`s personal record of observations of geology made during the excursion	Field notebook	10-30%
S3, S4, A4, V1, V2	Working in teams and effective communication	Observation of students interaction with staff and peers	10-20%

## Adopted Reference Style:

Australian