

Course Outline

Title: PROJECT

Code: SCGEO3107

Formerly: SX729

Faculty / Portfolio: Faculty of Science

Program Level:

	AQF Level of Program					
	5	6	7	8	9	10
Level						
Introductory						
Intermediate						
Advanced			✓			

Pre-requisites: (A min of 4 of the following courses SCGEO 2101, 2102, 2103, 2105, 2106, 2107, 2108, 2109)

Co-requisites: Nil

Exclusions: SX729

Progress Units: 15

ASCED Code: 010703

Learning Outcomes:

This course provides students in the final year of their Bachelors degree to undertake an independent research project. Students undertake independent research on an aspect of geological interest, and compile a professionally prepared research report and presentation for assessment. This course allows students to bring together key elements from their program, collect and analyse data, and report results. On completing this course students will be able to:

Knowledge:

- K1.** Explore and develop scientific problem solving and investigation skills
- K2.** Demonstrate a sound knowledge of scientific investigations and planning
- K3.** Select and evaluate appropriate data collection and analysis tools and strategies in order to investigate a scientific problem
- K4.** Develop an in-depth knowledge of an element of geoscience

Skills:

- S1.** Examine and critique relevant literature on a subject relevant to the chosen research topic
- S2.** Collect, collate and analyse geological field and/or laboratory data
- S3.** Examine and interpret raw scientific data
- S4.** Communicate the results of scientific investigation

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S5. Plan and implement a scientific investigation

Application of knowledge and skills:

- A1. Plan for, collect and analyse geological data in the field/laboratory
- A2. Analyse collected data and use this to interpret geological environments/problems
- A3. Produce a written report outlining the rationale, methods, results, and implications of investigations undertaken
- A4. Communicate results of investigation to a range of audiences

Values and Graduate Attributes:

Values:

- V1. Experience the excitement of discovery in scientific research
- V2. Understand the importance of being scrupulous in acknowledging the contribution of others to one's work
- V3. Recognise the importance of project planning

Graduate Attributes:

Attribute	Brief Description	Focus
Continuous Learning	This course brings together knowledge from a number of courses and gives students the opportunity to enjoy undertaking an independent, guided research project.	High
Self Reliance	Students are guided by a supervisor in crafting the project but are responsible for collecting and analysing their own data. as such, this course has a strong emphasis on self reliance and independent work.	High
Engaged Citizenship	Students will engaged in a topic of interest to society and carry through a significant research project.	Low
Social Responsibility	Students will be operating independently and will be expected to interact professionally and courteously with other professionals, and members of the public.	Medium

Content:

Students undertake an independent project involving geological research. The project work should include literature review, data collection, data compilation and evaluation. Each student will submit a written report that explains the rationale of the work undertaken and presents the results and interpretations and implications.

Topics may include:

- Project outline and research plan
- Oral presentation, summarising project work undertaken
- Submission of final report

Assessment:

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting
K1, K2, S1, S5, A1, V3	Project outline and research plan	Written outline of proposed research	10%
K1, S1-S4, A2, A4, V2	Verbal presentation of research project	Presentation	10-20%

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K1-K4, S1-S5, A1-A4, V2, V3	Written report outlining the project including objectives, methodology, results, interpretations, and implications of research.	Research report	70-80%
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Adopted Reference Style:

APA

Presentation of Academic Work:

<https://federation.edu.au/students/assistance-support-and-services/academic-support/general-guide-for-the-presentation-of-academic-work>