

ENS330 K'gari Field Studies

School: School of Science, Technology and Engineering

2025 | Session 8

UniSC Sunshine Coast
UniSC Moreton Bay

**BLENDED
LEARNING**

Most of your course is on campus but you may be able to do some components of this course online.

Please go to unisc.edu.au for up to date information on the teaching sessions and campuses where this course is usually offered.

1. What is this course about?

1.1. Description

This is your opportunity to explore and develop your scientific knowledge on K'gari, the world's largest sand island & an iconic national park. The island is a globally significant example of geological processes and biological evolution and is World Heritage listed. The island has the most complete age sequence of any dune system in the world and many unique ecosystems that thrive upon these sands. In this course you will examine soil, water, plant, and animal systems and processes on & around K'gari. Extra costs for the field trip (for example cost of catered meals) will be at your expense.

1.2. How will this course be delivered?

| ACTIVITY | HOURS | BEGINNING WEEK | FREQUENCY |
|---|-------|----------------|-----------|
| BLENDED LEARNING | | | |
| Tutorial/Workshop 1 – All day on campus workshop | 8hrs | Week 1 | Once Only |
| Tutorial/Workshop 2 – On campus workshop | 6hrs | Week 1 | 3 times |
| Fieldwork – Fieldwork | 8hrs | Week 1 | 6 times |

1.3. Course Topics

- Geomorphic processes
- Assessing ecosystem rehabilitation post-sandmining
- Links between geomorphology, soil forming processes and above-ground biota
- Aquatic ecology
- Water quality assessment
- Protected area management
- Fire ecology

2. What level is this course?

300 Level (Graduate)

Demonstrating coherence and breadth or depth of knowledge and skills. Independent application of knowledge and skills in unfamiliar contexts. Meeting professional requirements and AQF descriptors for the degree. May require pre-requisites where discipline specific introductory or developing knowledge or skills is necessary. Normally undertaken in the third or fourth full-time study year of an undergraduate program.

3. What is the unit value of this course?

12 units

4. How does this course contribute to my learning?

| COURSE LEARNING OUTCOMES | GRADUATE QUALITIES |
|--|--|
| On successful completion of this course, you should be able to... | Completing these tasks successfully will contribute to you becoming... |
| 1 Describe and explain the unique natural features and ecological processes of K'gari. | Knowledgeable |
| 2 Implement a fieldwork program and demonstrate safe fieldwork skills including collection and analysis of field samples | Empowered Engaged |
| 3 Communicate scientific findings in a formal report format | Knowledgeable Engaged |

5. Am I eligible to enrol in this course?

Refer to the [UniSC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

5.1. Pre-requisites

(Completion of 192 units and SCI110 and enrolled in SC319, SC316, SC320, SC301, AR397, SC425, SA308, SB301, Biological Science Major, or Biological Science Extended Minor) or by Coordinator Consent

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

5.4. Specific assumed prior knowledge and skills (where applicable)

This is a capstone ecological field studies course. You will benefit from having completed at least 3 semesters of a related program (Environmental Management, Environmental Science, Animal Ecology, Bachelor of Science or enrolled in the Biological Sciences Major or Extended Major) prior to enrolment in this course. Students from other programs should consult with the Course Coordinator to assess enrolment eligibility

5.5. Microcredential Information

Not applicable

6. How am I going to be assessed?

6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

6.2. Details of early feedback on progress

In week 2 of this course, we will work together in a workshop environment to collaboratively review the class data and report outline for Task 2.

6.3. Assessment tasks

| DELIVERY MODE | TASK NO. | ASSESSMENT PRODUCT | INDIVIDUAL OR GROUP | WEIGHTING % | WHAT IS THE DURATION / LENGTH? | WHEN SHOULD I SUBMIT? | WHERE SHOULD I SUBMIT IT? |
|---------------|----------|--|---------------------|-------------|--------------------------------|-----------------------|--|
| All | 1 | Practical / Laboratory Skills, and Written Piece | Individual | 20% | 1500 word equivalent | Week 2 | To Supervisor |
| All | 2 | Report | Individual | 50% | 2500 words | Week 6 | Online Assignment Submission with plagiarism check |
| All | 3 | Oral | Individual | 30% | 10 minutes | Week 8 | In Class |

All - Assessment Task 1: Fieldwork Skills

| GOAL: | With initiative and judgement in planning, you will demonstrate critical fieldwork skills including: field safety, organisation, observation, interpretation and data recording. These skills and qualities of thinking are important elements in professional scientific practice | | | | | | | | | | | | | |
|------------------------------|--|---------------------------|--|---------------------------|---|---|-----|---|-----------------------|---|---|---------------------------------------|---|--|
| PRODUCT: | Practical / Laboratory Skills, and Written Piece | | | | | | | | | | | | | |
| AUTHORSHIP STATEMENT: | | | | | | | | | | | | | | |
| FORMAT: | <p>Submit: At the end of the field trip</p> <p>Completed field notebook, and an electronic copy of your data for the class to undertake data analysis You will receive a field-safety induction, collect data and submit a handwritten copy of your field notes in a format advised by the Course Coordinator, along with an electronic copy of your data for class analysis in a format advised by the Course Coordinator</p> | | | | | | | | | | | | | |
| CRITERIA: | <table border="1"> <thead> <tr> <th>No.</th> <th></th> <th>Learning Outcome assessed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Completed field notebook (accuracy and comprehensiveness)</td> <td>1 2</td> </tr> <tr> <td>2</td> <td>Collection of samples</td> <td>2</td> </tr> <tr> <td>3</td> <td>Field safety and professional conduct</td> <td>2</td> </tr> </tbody> </table> | No. | | Learning Outcome assessed | 1 | Completed field notebook (accuracy and comprehensiveness) | 1 2 | 2 | Collection of samples | 2 | 3 | Field safety and professional conduct | 2 | |
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| 1 | Completed field notebook (accuracy and comprehensiveness) | 1 2 | | | | | | | | | | | | |
| 2 | Collection of samples | 2 | | | | | | | | | | | | |
| 3 | Field safety and professional conduct | 2 | | | | | | | | | | | | |
| GENERIC SKILLS: | | | | | | | | | | | | | | |

All - Assessment Task 2: K'gari Project Report

| GOAL: | This task allows you to develop and communicate your data-collection skills and analysis of field-based observations using rigorous scientific approaches. | | | | | | | | | | | | | | | | | | |
|------------------------------|--|-----|---------------------------|---|--|-----|---|---|-----|---|--|---|---|----------------------|---|---|------------------------|---|--|
| PRODUCT: | Report | | | | | | | | | | | | | | | | | | |
| AUTHORSHIP STATEMENT: | | | | | | | | | | | | | | | | | | | |
| FORMAT: | Submit: Friday in Week 6 of Session 8. You are required to submit a 2000 word scientific report on your data collected during the field trips written in the form of a scientific paper | | | | | | | | | | | | | | | | | | |
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| 4 | Presentation of data | 3 | | | | | | | | | | | | | | | | | |
| 5 | Interpretation of data | 3 | | | | | | | | | | | | | | | | | |
| GENERIC SKILLS: | | | | | | | | | | | | | | | | | | | |

All - Assessment Task 3: Communicating the Unique Ecology of K'gari

| GOAL: | This is a key assessment that allows you to demonstrate your knowledge and understanding of K'gari environments. Much of this knowledge will be gained and developed through your site visit; therefore, it will be imperative that you take good notes, and photos and make careful observations. | | | | | | | | | | | | |
|------------------------------|---|-----|---------------------------|---|---|---|---|--|---|---|---|---|--|
| PRODUCT: | Oral | | | | | | | | | | | | |
| AUTHORSHIP STATEMENT: | | | | | | | | | | | | | |
| FORMAT: | Submit: In scheduled class time after the field trip (Week 7 of Session 8). You will be required to present a 10 minute PowerPoint presentation on the unique features of K'gari environments compared to other environments | | | | | | | | | | | | |
| CRITERIA: | <table border="1"><thead><tr><th>No.</th><th>Learning Outcome assessed</th></tr></thead><tbody><tr><td>1</td><td>Demonstration of your accurate knowledge and understanding of the unique features, structures and ecosystem processes on K'gari</td><td>1</td></tr><tr><td>2</td><td>Integration and synthesis of ideas to form independent insights into the ecology of K'gari</td><td>1</td></tr><tr><td>3</td><td>Quality of power point to support your representation of K'gari's ecology</td><td>1</td></tr></tbody></table> | No. | Learning Outcome assessed | 1 | Demonstration of your accurate knowledge and understanding of the unique features, structures and ecosystem processes on K'gari | 1 | 2 | Integration and synthesis of ideas to form independent insights into the ecology of K'gari | 1 | 3 | Quality of power point to support your representation of K'gari's ecology | 1 | |
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| GENERIC SKILLS: | | | | | | | | | | | | | |

7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

8.1. Prescribed text(s) or course reader

There are no required/recommended resources for this course.

8.2. Specific requirements

You will be required to travel to K'gari for one week for field studies. Transport will be provided from the Sunshine Coast Campus only. You may be required to pay a fee for accommodation, transport and food. You will be required to wear covered footwear, hat, long-sleeved shirt and long trousers for field safety.

You will need to complete a fieldwork induction and adhere to field safety protocols at all times. In particular, you will need to wear protective clothing to prevent risks of sun exposure dehydration, insect bites and snake bite be aware of the risks associated with dingoes at all times. Student will need to take care to stay in groups and be aware of the risks associated with the natural environment such as bushfires and getting lost. Students need to be aware of 4WD safety when on the beach.

9. How are risks managed in this course?

Risk assessments have been conducted for the field activities being undertaken and a high level of risk has been identified. High level risk may include, boating, diving, and hot works such as welding, cutting and grinding. Where high risks exist you will be given training and advice about how to control the high level risk, however it is also your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the [online induction training for students](#), and following the instructions of the University staff.

10. What administrative information is relevant to this course?

10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

10.2. Assessment: Additional Requirements

Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

- (a) The final mark is in the percentage range 47% to 49.4%; and
- (b) The course is graded using the Standard Grading scale

10.3. Assessment: Submission penalties

Late submissions may be penalised up to and including the following maximum percentage of the assessment task's identified value, with weekdays and weekends included in the calculation of days late:

- (a) One day: deduct 5%;
- (b) Two days: deduct 10%;
- (c) Three days: deduct 20%;
- (d) Four days: deduct 40%;
- (e) Five days: deduct 60%;
- (f) Six days: deduct 80%;
- (g) Seven days: A result of zero is awarded for the assessment task.

The following penalties will apply for a late submission for an online examination:

- Less than 15 minutes: No penalty
- From 15 minutes to 30 minutes: 20% penalty
- More than 30 minutes: 100% penalty

10.4. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit <https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

10.5. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The [Student Charter](#) sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

10.6. General Enquiries

In person:

- **UniSC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
- **UniSC Moreton Bay** - Service Centre, Ground Floor, Foundation Building, Gympie Road, Petrie
- **UniSC SouthBank** - Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- **UniSC Gympie** - Student Central, 71 Cartwright Road, Gympie
- **UniSC Fraser Coast** - Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay
- **UniSC Caboolture** - Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au