

Course Outline (Higher Education)

School:	School of Health and Life Sciences
Course Title:	FIELD-BASED INVESTIGATION
Course ID:	SCENV2500
Credit Points:	15.00
Prerequisite(s):	(SCENV1502 or SCENV1002)
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED Code:	050999

Description of the Course :

The design and implementation of appropriate techniques and methods in the field is a fundamental skill in environmental and conservation science. This course provides students the opportunity to develop the range of field-based skills and experience that will complement their learning in environmental and conservation science. A major component of this course is a one-week field trip with students engaged in environmental data collection and surveys and assessments of plants, animals and other organisms.

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

Work Experience:

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

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks..

Program Level:

AQF Level of Program						
	5	6	7	8	9	10
Level						
Introductory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Learning Outcomes:

On successful completion of the course the students are expected to be able to:

Knowledge:

Course Outline (Higher Education)

SCENV2500 FIELD-BASED INVESTIGATION

- K1.** Describe appropriate procedures, regulations, planning processes and ethical considerations that are necessary in conducting field-based investigations.
- K2.** Evaluate the role and application of field-based investigations to progress understanding of environmental and conservation science.
- K3.** Develop broad knowledge of the techniques and methods used to collect environmental data.
- K4.** Develop broad knowledge of the techniques and methods used to survey plants, animals and other organisms.

Skills:

- S1.** Plan and develop appropriate approaches to implementing field-based studies in environmental and conservation science.
- S2.** Undertake field-based exercises to collect data on environment, plants, animals and other organisms.
- S3.** Develop field-based skills that enable assessment of environmental attributes, and effective survey of plants, animals and other organisms.
- S4.** Collate and analyse field data in the context of environmental and conservation science.

Application of knowledge and skills:

- A1.** Practice appropriate techniques and methods in the field to assess environments, plants, animals and other organisms.
- A2.** Conduct field-based studies to investigate issues in environmental and conservation science.
- A3.** Communicate the scientific outcomes of field-based studies to a diverse audience.

Course Content:

This course provides students with a consolidated field-based learning experience to develop skills in the collection of field-based environment data.

Topics may include:

- Regulations relevant to collecting field data.
- Preparing for fieldwork.
- Safe field-based practices.
- Collection of environmental data.
- Surveys for plant, animals and other organisms.
- Designing field-based experiments.
- Collating and analysing field-based data.
- Presenting the outcomes of field-based assessments.

Values:

- V1.** Appreciate the necessary role that field-based data collection has in improving outcomes for the environment and biodiversity.
- V2.** Appreciate the permits, licensing and regulations involved in conducting field-based investigations.
- V3.** Recognise the need for ethical considerations when conducting scientific investigations.

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.

Course Outline (Higher Education)

SCENV2500 FIELD-BASED INVESTIGATION

Attribute	Brief Description	Focus
Knowledge, skills and competence	Develops knowledge, skills and competency to undertake field-based studies and assessment relevant to environmental and conservation science.	High
Critical, creative and enquiring learners	Develops capacity in both independent learning and teamwork skills using the scientific method to build critical, creative and enquiring learners.	Medium
Capable, flexible and work ready	Develops practical understanding of field-based methods by engaging in authentic learning experiences alongside industry-based personnel in environmental and conservation science.	High
Responsible, ethical and engaged citizens	Develops a keen sense of the responsibility and ethical requirements of conducting field-based studies, including responsibility as scientists to promote findings to a broader audience.	High

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1, K2, S1	Field work design and planning. Complete an online quiz task that explores the procedures, regulations and planning that must be considered in field-based investigations.	Quiz	10 - 20%
K3, K4, S3, S4, A1, A2	Data collation and analysis. Produce a collated data set from field-based assessments that has been curated, summarised and presented in appropriate tables and figures and interpret the key outcomes.	Report	20 - 40%
S2, S3, A1	Evaluation of field-based work. Assessment of students capacity to competently carryout field-based studies.	Self and peer review	10 - 20%
K2, K3, K4, S4, A2, A3	Research communication. Produce a piece of scientific communication that clearly and appropriately communicates the outcomes of the field-based data collection to a diverse audience.	Research communication piece	20 - 40%

Adopted Reference Style:

Australian