School of Environmental and Life Sciences

ENVS3005: Animal Behaviour

Callaghan and Ourimbah Semester 1 - 2024



www.newcastle.edu.au

CRICOS Provider 00109J

OVERVIEW

Course Description

Animal behaviour includes the ways animals interact with other living things, each other, and their environment. Students will gain knowledge of the principles and current theoretical issues within the field. The course models the process of conducting scientific research in the field of animal behaviour from hypothesis formulation to design, sampling, analysis and dissemination of findings. As such, the course encourages skill development in observing behaviour, formulating testable hypotheses, experimental design, data collection and analysis, and the presentation of findings in written scientific format. Further, theoretical instruction provides students with the requisite knowledge to be able to interpret and place their findings within the body of discipline-specific theory.

Academic Progress Requirements

Contact Hours

Requisites This course replaces BIOL3350. If you have successfully completed BIOL3350 you cannot enrol in this course.

Assumed Knowledge STAT1020 or STAT1070

Nil

Computer Lab

Face to Face on Campus 3 hour(s) per week(s) for 12 week(s) starting Week 1

Field Study

Face to Face Off Campus 20 hour(s) per term starting Week 1

Lecture

Online 2 hour(s) per week(s) for 7 week(s) starting Week 2

Workshop

Face to Face on Campus 32 hour(s) per term Workshop will involve 4 x 8hr workshops; Students will also be required to complete some self-directed field-based study for a Student Project.

Ourimbah

Computer Lab Face to Face on Campus 3 hour(s) per week(s) for 12 week(s) starting Week 1

Field Study

Face to Face Off Campus 20 hour(s) per term starting Week 1



	Lecture Online 2 hour(s) per week(s) for 7 week(s) starting Week 2	
	Workshop Face to Face on Campus 32 hour(s) per term Workshop will involve 4 x 8hr workshops; Students will also be required to complete some self-directed field-based study for a Student Project.	
Unit Weighting	10	
Workload	Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10-unit course.	

CONTACTS

Course Coordinator	Callaghan and Ourimbah A/Prof Geoff Macfarlane <u>Geoff.Macfarlane@newcastle.edu.au</u> (02) 4921 7858 Consultation: By Appointment.
Teaching Staff	A/Prof Andrea Griffin Andrea.Griffin@newcastle.edu.au Consultation: By Appointment
School Office	School of Environmental and Life Sciences Room C228 Chemistry Building Callaghan <u>Science-SELS@newcastle.edu.au</u> +61 2 4921 5080 9am-5pm (Mon-Fri)
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SYLLABUS

Course Content

Course Learning

Outcomes

Proximate causes and ultimate function of behaviour, the adaptive nature of behaviour measuring behaviour, experimental design, sampling techniques, physiological basis of behaviour, the development of behaviour ontogeny, experience and learning, antipredator behaviour, communication and sociality, co-operation, altruism and kin selection, sexual selection, mating systems, parental care strategies, the art of scientific writing and peer review.

On successful completion of this course, students will be able to:

- 1. Apply knowledge of behavioural theory to new situations.
- 2. Interpret, summarise, validate and critique data from the scientific literature.
- 3. Work independently to design and execute a scientific study in the discipline area.
- 4. Formulate a hypothesis and robust experimental design.
- 5. Collect, analyse, and interpret data statistically, and write a scientific paper based on data
- 6. Critically evaluate the work of peers.



Week	Week Begins	Lecture	Tutorial	Assessment Due	
1	26 Feb	ONLINE WORKSHOP:	TUTORIAL: Introduction:		
		Sampling techniques for	background and instructions		
		behavioural studies	for course and independent		
			project		
			INDUCTION		
2	4 Mar	ONLINE LECTURE:	TUTORIAL: past	QUIZ 8th march	
		proximate and ultimate	independent projects;	midnight	
		explanations of behaviour	analysing proximate and		
			ultimate studies		
			ZOO Field Trip Hunter Valley		
			Zoo (Saturday)(\$38 entry)		
3	11 Mar	ONLINE LECTURE: sexual	TUTORIAL: experimental	QUIZ 15th March	
		selection	design principles and	midnight	
			analysing sexual selection		
	10 14				
4	18 Mar	ONLINE LECTURE: Animal	TUTORIAL: Writing and	QUIZ 22nd March	
		Cognition	An avagriment in animal	Thiunight	
			An experiment in animal	Midnight CANVAS	
			(Indian mynah social	Midnight CANVAS	
			learning)		
5	25 Mar		No tutorial		
6	1 Apr		No tutorial	Risk Assessment 5th	
•	1.1.1			April midnight via email	
7	8 Apr	ONLINE LECTURE: Animal	TUTORIAL: Communication	QUIZ 12th April	
	•	communication		•	
		Mid-Semes	ster Recess		
		Mid-Semes	ster Recess		
8	29 Apr	ONLINE LECTURE:	TUTORIAL: Animal	QUIZ 3rd May midnight	
		Choosing where to live	behaviour in wildlife		
			conservation and		
			management		
9	6 May	ONLINE LECTURE: Social	STATISTICS	QUIZ 10th May midnight	
		living		Draft Scientific paper	
				10th May midnight	
				CANVAS	
10	13 May	ONLINE LECTURE:	Presentations	QUIZ 17th May midnight	
		Same-sex sexual behaviour		Peer review 17th May	
	00.14				
11	20 May		Presentations	Final Paper 24th May	
40	07 Mov		No tutorial		
12	∠r iviay	ONLINE LECTURE:		QUIZ 31St May midnight	
12	3 lun		No tutorial		
13	Jun	Fyaminat	ion Period		
	Examination Period				
Examination Period					





ASSESSMENTS

This course has 3 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Zoo Report	22nd March midnight	Individual	30%	1, 5
2	Draft and Final Scientific Paper; Peer Reviews and Presentation	Draft 10th May midnight Review 17th May midnight Final 24th May midnight	Individual	50%	1, 2, 3, 4, 5, 6
3	Multiple choice content questions	8th March 15th March 22nd March 12th April 3rd May 10th May 17th May 31st May midnight	Individual	20%	1, 2

Late Submissions

The mark for an assessment item submitted after the designated time on the due date, without an approved extension of time, will be reduced by 10% of the possible maximum mark for that assessment item for each day or part day that the assessment item is late. Note: this applies equally to week and weekend days.

Assessment 1 - Zoo Report

Assessment Type	Report
Purpose	Zoo report-encourages skill development in the sampling techniques required to undertake
	behavioural studies. The report also fosters data interpretation skills
Description	Written report
Weighting	30%
Due Date	22nd March midnight
Submission Method	Online
Assessment Criteria	Rubrics available on CANVAS
Return Method	Online
Feedback Provided	Online.
Opportunity to	Students WILL NOT be given the opportunity to reattempt this assessment.
Reattempt	

Assessment 2 - Draft and Final Scientific Paper; Peer Reviews and Presentation

Assessment Type	Written Assignment
Purpose	Draft and Final Scientific Paper- Undertaking the independent field project and writing a scientific paper has been designed to enable students to gain skills in:
	- experimental design and collection of field data
	- interpretation and statistical analysis of data
	- communicating findings in scientific written format
	Peer review - the peer review process is undertaken to gain skills in critically evaluating scientific papers and to encourage reflection on your own writing
Description	Written assignment
Weighting	50%
Due Date	Draft 10th May midnight
	Review 17th May midnight
	Final 24th May midnight
Submission Method	Online
Assessment Criteria	Rubric on CANVAS
Return Method	Online
Feedback Provided	Online.
Opportunity to	Students WILL NOT be given the opportunity to reattempt this assessment.
Reattempt	



Assessment 3 - Multiple choice content questions

Assessment Type	Quiz
Purpose	assesses knowledge acquisition in the field of animal behaviour
Description	online multiple-choice quiz
Weighting	20%
Due Date	8th March
	15th March
	22nd March
	12th April
	3rd May
	10th May
	17th May
	31st May
	midnight
Submission Method	Online
Assessment Criteria	multiple choice
Return Method	Online
Feedback Provided	Online.
Opportunity to	Students WILL NOT be given the opportunity to reattempt this assessment
Reattempt	

ADDITIONAL INFORMATION

Grading Scheme

This course is graded as follows:

Range of Marks	Grade	Description
85-100	High Distinction (HD)	Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives.
75-84	Distinction (D)	Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives.
65-74	Credit (C)	Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes.
50-64	Pass (P)	Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes.
0-49	Fail (FF)	Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action.

*Skills are those identified for the purposes of assessment task(s).

on Communication methods used in this course include:

Communication Methods

Course Evaluation Each year feedback is sought from students and other stakeholders about the courses offered in the University for the purposes of identifying areas of excellence and potential improvement.



Oral Interviews (Vivas)	As part of the evaluation process of any assessment item in this course an oral examination (viva) may be conducted. The purpose of the oral examination is to verify the authorship of the material submitted in response to the assessment task. The oral examination will be conducted in accordance with the principles set out in the <u>Oral Examination (viva) Procedure</u> . In cases where the oral examination reveals the assessment item may not be the student's own work the case will be dealt with under the <u>Student Conduct Rule</u> .
Academic Misconduct	All students are required to meet the academic integrity standards of the University. These standards reinforce the importance of integrity and honesty in an academic environment. Academic Integrity policies apply to all students of the University in all modes of study and in all locations. For the Student Academic Integrity Policy, refer to <u>https://policies.newcastle.edu.au/document/view-current.php?id=35</u> .
Adverse Circumstances	 The University acknowledges the right of students to seek consideration for the impact of allowable adverse circumstances that may affect their performance in assessment item(s). Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where: the assessment item is a major assessment item; or the assessment item is a minor assessment item, and the Course Co-ordinator
	 has specified in the Course Outline that students may apply the online Adverse Circumstances system; you are requesting a change of placement; or the course has a compulsory attendance requirement.
	Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at:
	https://policies.newcastle.edu.au/document/view-current.php?id=236
Important Policy Information	The Help button in the Canvas Navigation menu contains helpful information for using the Learning Management System. Students should familiarise themselves with the policies. and procedures at
	https://www.newcastle.edu.au/current-students/respect-at-uni/policies-and-procedures

that support a safe and respectful environment at the University.

This course outline was approved by the Head of School. No alteration of this course outline is permitted without Head of School approval. If a change is approved, students will be notified, and an amended course outline will be provided in the same manner as the original.

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