

# Module Definition Form (MDF)

Version: 5 Date Amended: 10/Jul/2025						
1. Module Title						
Animal Physiology and Behaviour	Animal Physiology and Behaviour					
2a. Module Leader						
Sarah Hart						
2b. School						
School of Life Sciences						
2c. Faculty						
Faculty of Science and Engineering						
3a. Level						
4						
3b. Module Type						
Standard (fine graded)						
4a. Credits						
30	30					
4b. Study Hours						
300						
5. Restrictions						
Туре	Module Code	Modu	le Name	Condition		
Pre-requisites:	None	·				
Co-requisites:	None					
Exclusions:	None					
Courses to which this module is restricted:						

#### LEARNING, TEACHING AND ASSESSMENT INFORMATION

### 6a. Module Description

The ways in which animals cope with the demands of everyday life, from feeding, moving and respiring to sensing the outside world and each other are as diverse as the animals themselves Within this module you will examine the ways in which an animal's anatomy, physiology and behaviour allow them to adapt for survival and reproduction. You will examine the variety of ways in which an

animal's anatomy and physiology are adaptations to the many tasks it faces to survive. Particular emphasis will be placed on comparing the solutions evolved to similar tasks by the various animal groups both vertebrate and invertebrate.

Through a series of integrated lectures, practical sessions and active learning, you will examine main themes of cell biology, homeostasis, communication, locomotion and the function of the different organ systems in a variety of different organisms.

Our study of animal behaviour will investigate the philosophy and multidisciplinary origins of the scientific study of behaviour. A synthesis of the fields of psychology and animal behaviour will be presented to you using a framework of proximate (developmental and mechanistic) and ultimate (functional and phylogenetic) explanations. You will also investigate behaviour through evolutionary processes, gene expression and environmental contributions.

You will develop a strong scientific foundation in animal physiology and behaviour and the ecology of the animal. You will also develop transferable employability skills including self-management, organisational skills, resilience, critical thinking. IT, teamwork and communication & literacy; necessary in subsequent modules and biological careers.

#### **6b. Outline Content**

## 6d. Specialist Learning Resources

Lab equipment and models

7. Learn	7. Learning Outcomes (threshold standards)				
No.	Туре	On successful completion of this module the student will be expected to be able to:			
1	Knowledge and Understanding	Demonstrate knowledge of comparative physiology and cell biology			
2	Knowledge and Understanding	Relate the normal functions and anatomy in animal organisms			
3	Knowledge and Understanding	Discuss the multidisciplinary and philosophical origins of, and the importance of applying scientific methodology in the study of pure and applied animal behaviour.			
4	Knowledge and Understanding	Develop proximate and ultimate hypotheses for the behaviour of animals			
5	Intellectual, practical, affective and transferrable skills	Demonstrate the ability to perform a literature search, critically evaluate and synthesise the information, and draw a literature supported conclusion for a report			
6	Intellectual, practical, affective and transferrable skills	Collect, summarise and statistically analyse biological data, presenting it in an appropriate format			

8a. Module Occurrence to which this MDF Refers					
Year Occurrence Period Location Mode of Delive				Mode of Delivery	
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face	

8b. Learning Activities for the above Module Occurrence				
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments	
Lectures	46	1-4	20 x 2 hrs lectures/active learning + 2 x 2 hr revision + 2 x 1 hr test	
Other teacher managed learning	28	1,2	9 x 2 hrs practicals + 2 x (5-hour) day field trips	
Student managed learning	226	1-6	Background reading, online activities, preparation for lectures and practicals, and completion of assessments	
TOTAL:	300			

9. Assessment for the above Module Occurrence					
Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	2,4,5,6	60 (%)	Fine Grade	30 (%)
Coursework (2000 words equivalent)					

Assessment components for Element 010					
Component No.	Assessment Title	Submission Method	Weighting (%)	Components needed for Mark Calculation?	
010/1	Practical skills report (Tri 1)		50 (%)	All	
010/2	Practical skills report (Tri 2)		50 (%)	All	

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
011	Coursework	1,3,4	40 (%)	Fine Grade	30 (%)
In-class test – one per trimester (60 min per test: 1000 word equivalent each)					

In-class test – one per trimester (60 min per test; 1000 word equivalent each)

Assessment components for Element 011					
Component No.	Assessment Title	Submission Method	Weighting (%)	Components needed for Mark Calculation?	
011/1	Animal Behaviour test		50 (%)	All	
011/2	Animal Physiology test		50 (%)	All	

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7\*).

In addition, students are required to:

- (a) achieve the qualifying mark for each element of fine graded assessment as specified above
- (b) pass any pass/fail elements

[\* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]