

## Liverpool John Moores University

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Title: ANIMALS IN MOTION  
Status: Definitive  
Code: **5218NATSCI** (122553)  
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences  
Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
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**Academic Level:** FHEQ5      **Credit Value:** 20      **Total Delivered Hours:** 55

**Total Learning Hours:** 200      **Private Study:** 145

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	33
Off Site	4
Practical	8
Workshop	8

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Exam with essay questions	50	2
Report	Report	Report based on practical session and field observations.	45	
Presentation	OneNote	A small presentation using OneNote - students must upload images of videos of an animal in motion and provide a few words	5	

Category	Short Description	Description	Weighting (%)	Exam Duration
		about it.		

## Aims

*This module aims to provide a comprehensive background and understanding of animal locomotion and movement. We will investigate the process and mechanisms of motion from its physiological bases through whole animal mechanics, and group level migrations.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Describe and explain anatomical structures and identify their components.
- 2 Synthesise information about varying levels of the mechanics and purposes of locomotion.
- 3 Recognise and discuss the reasons and different ways in which animals move.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Examination	1	2	3
Practical Report	2	3	
OneNote	1	2	3

## Outline Syllabus

*Physiological bases of movement. Skeletal and muscle anatomy. Swimming, terrestrial locomotion, flight. Means of terrestrial locomotion. Why do animals move? Movement and communication. Movement and feeding. Migration.*

## Learning Activities

This module is delivered through a combination of lectures, practicals and computer workshops.

## Notes

This module will investigate animal motion in all its forms and at all scales. We will study the fundamental physiology and anatomy of movement and use these to explore the full range of animal motion and its purposes.

