

## Liverpool John Moores University

Title: PRACTICAL SKILLS FOR ZOOLOGY  
Status: Definitive  
Code: **4204NATSCI** (122039)  
Version Start Date: 01-08-2021

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

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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 74  
**Total Learning Hours:** 200      **Private Study:** 126

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	18
Off Site	31
Practical	18
Workshop	7

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Test	TEST	Practical skills & knowledge test	60	
Presentation	BLOG	Blog	40	

<b>Competency</b>	<b>Practical Skills</b>
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## Aims

*To provide a robust introduction to key laboratory and field skills relevant to the study of zoology. To introduce concepts of 'Good Laboratory Practice (GLP)' and safe and ethical working practices in the biosciences.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Prepare for and conduct laboratory and fieldwork safely including the completion of risk assessments and ethics forms.
- 2 Use basic lab instruments correctly, including microscopes, pipettes, scales, spectrophotometers and pH meters.
- 3 Apply basic concepts in chemistry and maths such as pH, buffering, and molarity.
- 4 Record, present and communicate scientific information in an appropriate and professional manner, following principles of good laboratory practice.
- 5 Identify a range of UK fauna.
- 6 Apply creativity to different aspects of the scientific work, such as the design of experiments and the communication of science.

## Learning Outcomes of Assessments

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

Practical Test	2	3	5		
Blog post	4	6			
Practical Skills	1	2	3	4	5

## Outline Syllabus

*Introduction to basic laboratory instruments, methods and analytical techniques. Data collection and recording including 'Good Laboratory Practice (GLP)'. Safe and ethical work practices including risk assessments and ethical approval. Introduction to field survey techniques. Identification of a range of UK fauna including invertebrates, amphibians, reptiles, birds, and mammals. Introduction to measuring animal behaviour. Team work and confidence building.*

## Learning Activities

The module will be delivered through a combination of lectures, workshops, practicals, museum visits and field investigations in the UK.

## **Notes**

This module introduces a range of key laboratory and field skills relevant to the study of zoology. The practical skills assessment is a competency assessment and must be passed to pass the module. The module includes a short UK residential field course.