

## Practical Skills for Zoology

### Module Information

2022.02, Approved

#### Summary Information

Module Code	4204NATSCI
Formal Module Title	Practical Skills for Zoology
Owning School	Biological and Environmental Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

#### Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

#### Learning Methods

Learning Method Type	Hours
Lecture	18
Off Site	29
Practical	18
Workshop	7

#### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	28 Weeks

#### Aims and Outcomes

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.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Prepare for and conduct laboratory and fieldwork safely including the completion of risk assessments and ethics forms.
MLO2	2	Use basic lab instruments correctly, including microscopes, pipettes, scales, spectrophotometers and pH meters.
MLO3	3	Apply basic concepts in chemistry and maths such as pH, buffering, and molarity.
MLO4	4	Record, present and communicate scientific information in an appropriate and professional manner, following principles of good laboratory practice.
MLO5	5	Identify a range of UK fauna.
MLO6	6	Apply creativity to different aspects of the scientific work, such as the design of experiments and the communication of science.

### Module Content

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.
Module Overview	This module introduces you to a range of key laboratory and field skills relevant to the study of zoology. You will also be introduced to concepts of Good Laboratory Practice (GLP) and safe and ethical working practices in the biosciences.
Additional Information	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.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Test	Practical Test	60	0	MLO3, MLO2, MLO5
Presentation	Blog post	40	0	MLO6, MLO4
Competency	Practical Skills			MLO3, MLO2, MLO5, MLO1, MLO4

### Module Contacts

**Module Leader**

Contact Name	Applies to all offerings	Offerings
Julia Nowack	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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