

## Liverpool John Moores University

Title: Fundamentals of Zoology  
Status: Definitive  
Code: **3501YAUZOO** (127877)  
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences  
Teaching School/Faculty: Yunnan Agricultural University

Team	Leader
Rachael Symonds	Y

**Academic Level:** FHEQ3  
**Credit Value:** 20  
**Total Delivered Hours:** 84  
**Total Learning Hours:** 200  
**Private Study:** 116

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	56
Practical	24

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Written Exam covering all aspects of the histology and embryology lecture content	30	2
Exam	Exam	Written Exam covering all aspects of the zoology and animal classification lecture content	30	2
Report	Lab Skills	Experimental Results Report for histology and embryology experimental work	15	
Report	Lab Skills	Experimental Results Report for the animal classification and zoology experiments	15	
Practice	Lab Skills	In class assessment of proficiency in microscopy, embryology and histology	5	

Category	Short Description	Description	Weighting (%)	Exam Duration
		laboratory skills		
Practice	Lab Skills	In class assessment of proficiency in large animal classification Laboratory Skills	5	

## Aims

*Fundamentals of Zoology is the study of animal development and classification from the whole organism to tissues and structures. The main purpose is to master the basic knowledge and theory of zoology, to study the morphological structure, classification and adaptability to the environment. Through theoretical study and experimental observation of animal histology and embryology, students can strengthen the training of basic theory, knowledge and skills of development to understand the micro-structure of animals and distinguish structures and tissues under the microscope.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Understand the basic concepts and theories of zoology, classification, reproduction and development of animals
- 2 Understand the characteristics, classification and representative animals of the main categories of lower invertebrates, higher invertebrates, lower vertebrates and higher vertebrates
- 3 Understand the basic concepts, theories, principles and research methods of animal histology and embryology
- 4 Understand the concepts, theories, structure and micro-structure, organisation and function of cells and tissues and organs

## Learning Outcomes of Assessments

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

Exam	1	2	3
Exam	1	2	3
Experimental Results	1	2	4
Experimental Results	1	4	
Proficiency in Laboratory Skill	1	2	4
Proficiency in Laboratory Skill	1	2	4

## Outline Syllabus

*Zoology is a basic discipline that studies the morphological structure, classification, development of animals as well as the adaptability of life and interactions with the environment. The course introduces the characteristics, classification and representative animals of the main categories of invertebrates and vertebrates. Reproduction and individual development of animals are studied with a focus on histology and embryology of cells, organs and tissues.*

### **Learning Activities**

The module content will be delivered through lectures, several stages of practical activities , final examinations and experiments to achieve the learning objectives.

### **Notes**

This module helps individuals to develop an understanding of Animal Histology and Embryology Development methods, and gain an understanding of the evolution and development of the animal kingdom, master the characteristics and classification of the main animal categories and better understand the relationship between animals. Students will also acquire preliminary scientific research ability and master professional basic theories and knowledge of animal medicine.