

## Liverpool John Moores University

Title: BRAIN, HORMONES and BEHAVIOUR  
Status: Definitive  
Code: **5216NATSCI** (122552)  
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:** FHEQ5      **Credit Value:** 20      **Total Delivered Hours:** 55  
**Total Learning Hours:** 200      **Private Study:** 145

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	24
Practical	14
Seminar	8
Workshop	9

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Report	Lab report	60	
Presentation	Present	Poster presentation	40	

### Aims

*The aim of this module is to gain an overview over the function of the nervous and endocrine system, how it is interconnected, how it is influenced by the environment and how it affects animal behaviour. A second aim is to receive practical training in up-to-date methods used in this field and to learn how the achieved skills can be applied to own behavioural studies and studies on conservation and animal welfare.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Recall how the nervous and endocrine system works, the relationship between the two systems and how behaviour is modified by the two systems;
- 2 Explain the relationship between the environment and physiology;
- 3 Assess published studies on the relationship between brain, hormones and behaviour;
- 4 Theoretically apply the learned practical skills to their own studies.

## **Learning Outcomes of Assessments**

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

Report	1	2	3	4
Presentation	1	3		

## **Outline Syllabus**

*Function of the neuronal and endocrine system. Internal triggers of behaviour. Application of hormone assays to behavioural studies. Ecological physiology. Field endocrinology. Physiology and conservation/animal welfare.*

## **Learning Activities**

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

## **Notes**

This module provides a theoretical and practical introduction into the body's communication system.