# **Liverpool** John Moores University

Title: BRAIN AND BEHAVIOUR

Status: Definitive

Code: **5006PSYSCI** (113645)

Version Start Date: 01-08-2011

Owning School/Faculty: Natural Sciences & Psychology Teaching School/Faculty: Natural Sciences & Psychology

Team	Leader
Yvonne Harrison	Υ

Academic Credit Total

Level: FHEQ5 Value: 12.00 Delivered 26.00

**Hours:** 

Total Private

Learning 120 Study: 94

**Hours:** 

**Delivery Options** 

Course typically offered: Standard Year Long

Component	Contact Hours	
Lecture	24.000	

**Grading Basis:** 40 %

### **Assessment Details**

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	unseen written examination	100.0	2.00

#### **Aims**

- 1.To encourage students to consider the relationship between biological processes and behaviour.
- 2.To evaluate contemporary research into physiological mechanisms underlying a range of psychological processes.

### **Learning Outcomes**

After completing the module the student should be able to:

- 1 Demonstrate a working knowledge of neuroanatomy.
- 2 Evaluate contemporary research investigating the impact of physiological structures and processes on human behaviour.
- Assimilate research across related disciplines, including psychophysiology and cognitive neuropsychology.

## **Learning Outcomes of Assessments**

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

EXAM 1 2 3

# **Outline Syllabus**

Introduction to the structure and function of neurones and synapses, electrical and chemical properties of the brain. The rationale, outline methodology and limitations of the following techniques: electrical recording, computerised axial tomography, magnetic resonance imaging, positron emission tomography, regional cerebral blood flow, brain electrical activity mapping. How technological development allows us to address historical issues in psychology, such as the potential for identifying neural correlates of consciousness. The neurophysiology and neuropsychology of sleep and dreaming, sensory and perceptual processes, social behaviours, emotion, stress, drugs, motivation, pain, feeding and drinking.

## **Learning Activities**

Lectures, recommended reading and independent research of subject areas

#### References

Course Material	Book
Author	Toates, F.
Publishing Year	2007
Title	Biological Psychology: an integrative approach 2nd Edition
Subtitle	
Edition	
Publisher	Prentice Hall
ISBN	

Course Material	Book
Author	Thompson, R.F.
Publishing Year	1993
Title	The Brain:
Subtitle	A Neuroscience Primer

Edition	
Publisher	W.H. Freeman & Co
ISBN	

#### **Notes**

Brain and Behaviour considers the complex relationship between brain structure, neurochemistry and behaviour. In particular, the course looks at sleep and dreaming, the senses, social behaviours, emotion, stress, drugs, motivation, pain, eating and drinking. Students are asked to consider how far the reductionism of modern biological psychology can be reconciled with the concepts of human agency and responsibility. This module will also consider how recent technological development allows us to address historical issues in psychology, such as the neural correlates of consciousness.