

# PS219-15 Psychobiology

**23/24**

**Department**

Psychology

**Level**

Undergraduate Level 2

**Module leader**

Friederike Schlaghecken

**Credit value**

15

**Module duration**

10 weeks

**Assessment**

20% coursework, 80% exam

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

The module aims to extend the basic psychobiological knowledge acquired in the first year

[Module web page](#)

### Module aims

The module extends the basic psychobiological knowledge acquired in the first year to more complex issues of nervous system functioning and nervous system/endocrine system interactions, in order to enable students to appreciate how a psychobiological perspective might help us to understand human behaviour. Particular emphasis is placed on providing an insight into the complexities of psychobiological research, its recent advances, as well as its limits.

### Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Basics I: The neuron

Basics II: The nervous system - ONLINE TEST (wk 3)

Sexual development I: Genes and hormones

Sexual development II: Hormones and learning

Sexual behaviour

Laterality: Male and female brains

Homeostasis: Eating

Bodily rhythms: Sleep

Evolution

Drop-in & Feedback Session

Drop-in & Feedback Session

## **Learning outcomes**

By the end of the module, students should be able to:

- students should be able to demonstrate an understanding of the basic principles underlying the functional architecture of the brain at the macroscopic and the microscopic level
- students should be able to demonstrate an understanding of the basic principles underlying the principles of signal processing in the brain and their relevance for understanding complex behaviour.
- students should be able to demonstrate an understanding of the basic principles underlying the psychobiological underpinnings of genetics and neurochemistry
- students should be able to demonstrate an understanding of the basic principles underlying the psychobiological underpinnings of sex differences and laterality
- students should be able to demonstrate an understanding of the basic principles underlying the psychobiology of learning and memory
- students should be able to demonstrate an understanding of the basic principles underlying the psychobiology of homeostatic processes
- students should be able to demonstrate an understanding of the basic principles underlying the psychobiology of bodily rhythms
- students should be able to demonstrate an understanding of the basic principles underlying basic concepts of evolutionary psychology

## **Indicative reading list**

Purves, D., et al. (2012). Neuroscience. Sinauer (978-0878939671)

Carlson, N.R. (2013). Physiology of Behavior. Pearson (978-1292023205)

Breedlove, S.M., & Watson, N.V. (2013). Biological Psychology: An Introduction to Behavioral, Cognitive, and Clinical Neuroscience. Sinauer (978-0-87893-927-5)

LeVay, S. (1994). The Sexual Brain. MIT Press

[View reading list on Talis Aspire](#)

## **Subject specific skills**

understanding of the basic principles of the functional architecture of the brain, mechanisms of signal processing in the brain, psychobiological underpinnings of genetics and neurochemistry, psychobiological underpinnings of sex differences and laterality, psychobiology of learning and memory, psychobiology of homeostatic processes and psychobiology of bodily rhythms.

## Transferable skills

critical review of evidence supporting theories.

familiarity with collecting and organising stored information found in library book and journal collections, and online, critically evaluating primary and secondary sources;

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## Study

### Study time

| Type          | Required                    |
|---------------|-----------------------------|
| Lectures      | 27 sessions of 1 hour (18%) |
| Private study | 123 hours (82%)             |
| Total         | 150 hours                   |

### Private study description

123 hours guided student study and assessment preparation

## Costs

No further costs have been identified for this module.

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## Assessment

You do not need to pass all assessment components to pass the module.

Students can register for this module without taking any assessment.

### Assessment group D3

|  | Weighting | Study time |
|--|-----------|------------|
| Online MCQ test  | 20%       |            |
| end of week 2 and/or beginning of week 3 (depending on timetabling of lectures)<br>open for 48 hours |           |            |
| Online Examination   | 80%       |            |
| ~Platforms - Moodle  |           |            |

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## Weighting

## Study time

- Online examination: No Answerbook required

## Feedback on assessment

Tabula. Drop in sessions in term 3

[Past exam papers for PS219](#)

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## Availability

### Pre-requisites

Students must have either undertaken PS121 & PS120 or A-level (or equivalent) Biology

### Post-requisite modules

If you pass this module, you can take:

- PS346-15 Perspectives in Clinical and Counselling Psychology

## Courses

This module is Core for:

- Year 2 of UPSA-C800 Undergraduate Psychology
- Year 2 of UPSA-C804 Undergraduate Psychology with Education Studies
- Year 2 of UPSA-C802 Undergraduate Psychology with Linguistics

This module is Core optional for:

- Year 2 of UIPA-C8L8 Undergraduate Psychology and Global Sustainable Development

This module is Optional for:

- UPHA-L1CA Undergraduate Economics, Psychology and Philosophy
  - Year 2 of L1CA Economics, Psychology and Philosophy
  - Year 2 of L1CC Economics, Psychology and Philosophy (Behavioural Economics Pathway)
  - Year 2 of L1CD Economics, Psychology and Philosophy (Economics with Philosophy Pathway)
  - Year 2 of L1CE Economics, Psychology and Philosophy (Philosophy and Psychology Pathway)

This module is Unusual option for:

- Year 2 of UPHA-L1CA Undergraduate Economics, Psychology and Philosophy

This module is Option list B for:

- Year 2 of UPHA-VL78 BA in Philosophy with Psychology