

LF133-15 Plant Science and Zoology

26/27

Department

Life Sciences

Level

Undergraduate Level 1

Module leader

Isabelle Carre

Credit value

15

Module duration

10 weeks

Assessment

100% exam

Study location

University of Warwick main campus, Coventry

Description

Introductory description

This module covers major animal and plant body plans and their evolution in deep time. We take you onto a journey of discovery, to see animals and plants from the molecular and cellular 'inside'.

We show you how organisms changes across vast timescales and how we can trace these processes. This is going to be much different from what you have learned in school, so enjoy the ride!

To make the most of this, we encourage you to look at the lectures, films and papers we put on this website before and after the lectures. They are complementary to the lectures themselves and not a substitute for each other.

[Module web page](#)

Module aims

The module progresses from a series of lectures covering zoological methods, with an analysis of the evolutionary relationships between different Phyla and groups of animals and plants. A comparison is then drawn of the differences of plant to animal biology in terms of their cell biology, biochemistry and physiological activities. Finally the diversity of major groups is discussed. The aims of the courses for which this is available are to introduce students to a range of Biological

subjects and this is the only truly whole organismal material in the degree programmes. The overall objective for students is to acquire the ability to integrate organismal and molecular knowledge in a broad, evolutionary context.

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.

The Tree of life

The dawn of multicellular animals, the Metazoans

The evolution of the Bilaterian body plan. The Lophotrochozoans

Ecdysozoa

Chordates, Tetrapods, Dinosaurs and Birds

Hominid evolution

Plant origins

Co-evolution in the Anthropocene

Extinctions and the Carbon cycle

Plant structure-function

Plant Development and Reproduction -

Plant responses to environmental stress

Learning outcomes

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

- Understand and describe the methods used in Zoology to define the major groups of Animals.
- Understand and describe invertebrate and vertebrate diversity.
- Understand and describe plant structure and the function of the various components of a plant.

Indicative reading list

[Reading lists can be found in Talis](#)

Subject specific skills

By the end of the module the student should be able to:

- Understand and describe the methods used in Zoology to define the major groups of Animals.
- Understand and describe invertebrate and vertebrate diversity
- Understand and describe plant structure and the function of the various components of a plant.

Transferable skills

1. Critical appraisal of source material
 2. Self directed learning
 3. Adult learning
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Study

Study time

Type	Required
Lectures	30 sessions of 1 hour (20%)
Private study	119 hours (79%)
Assessment	1 hour (1%)
Total	150 hours

Private study description

Self-directed learning and revision for the closed-book examination

Costs

No further costs have been identified for this module.

Assessment

You must pass all assessment components to pass the module.

Assessment group B2

	Weighting	Study time	Eligible for self-certification
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Assessment component	Weighting	Study time	Eligible for self-certification
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Closed-book end-of-year examination	100%	1 hour	No
In-person locally-timetabled closed-book end-of-year examination			

Reassessment component is the same

Feedback on assessment

Pastoral meetings with tutors.

[Past exam papers for LF133](#)

Availability

Courses

This module is Core for:

- Year 1 of UBSA-3 Undergraduate Biological Sciences
- Year 1 of ULFA-C1A1 Undergraduate Biological Sciences (MBio)
- Year 1 of ULFA-C113 Undergraduate Biological Sciences (with Placement Year)
- Year 1 of ULFA-C1A5 Undergraduate Biological Sciences with Industrial Placement (MBio)