

Module code

SPB-2201

Type of module

Undergraduate: Biological Sciences – Major Core

Animal Form and Function



Modular credits

4

Total student
engagement

56 hours

Prerequisite

None

Anti-requisite

None

Aims

To provide students with an understanding of the fundamental processes that govern animal body form and how these influence organismal functioning.

Module learning outcomes (MLO)

On successful completion of this module, a student will be expected to be able to:

MLO 1

Analyse various structures associated with the animal organ systems.

MLO 2

Dissect representative organisms to study animal organ systems.

MLO 3

Analyse main groups of animals and understand their evolutionary relationships.

MLO 4

Interpret how organismal structure relates to function.

MLO 5

Analyse how structural adaptations of organisms relate to habitat.

Module contents

Locomotory organelles and systems	Hydrostatic skeletons and exoskeletons	Nutrition, feeding and excretion in invertebrates
Respiration and nervous systems of invertebrates	Reproduction of invertebrates	The chordate bauplan; what is a 'fish'?
Vertebrate embryology and myology	Skin and integumentary skeleton; teeth	Endo- and dermaskelton, the cranium and the evolution of the suspensorium
Post-cranial and appendicular skeleton	The cardiovascular system and the gills	The gas bladder and the evolution of lungs
Vertebrate digestive and urogenital systems	The vertebrate nervous system	

Assessment

60% **40%**
Examination Coursework



■ Examination — 60% ■ Written practical reports — 15% ■ Class tests — 15% ■ Written assignment — 10%

Formative assessment

Weekly discussion and feedback

Summative assessment

COMPONENT	WEIGHTING
Examination	60%
Coursework	40%
Individual	40%
Written practical reports	15%
Class tests	15%
Written assignment	10%

Graduate attributes and skills

Programme learning objectives (PLO) addressed

1	PLO 1 (Fundamental Theoretical Knowledge in Biology)	2	PLO 2 (Application of Scientific Methods and Data Analysis)
3	PLO 3 (Integrated Laboratory, Field and Technical Skills)	4	PLO 4 (Critical Thinking and Problem-Solving Skills)
5	PLO 5 (Sustainability and Responsible Practice)		

Sustainability concept addressed

13	SDG 13 Climate Action
14	SDG 14 Life below Water
15	SDG 15 Life on Land

Digital skills/software used (not limited to)

- Microsoft Office software (e.g. Word, Excel)
- Application software (e.g. Web browsers, statistical programs, cloud-based storage, file sharing platform)
- eLearning platforms (e.g. CANVAS, Zoom)

Micro-credentialling option

No

Stackable towards GenBESTARI Undergraduate Degree Programme or other relevant Lifelong Learning Programmes

No

Document details

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