

Module specification

When printed this becomes an uncontrolled document. Please access the **Module Directory** for the most up to date version by clicking on the following link: [Module directory](#)

Refer to the module guidance notes for completion of each section of the specification.

Module code	SCI326
Module title	Plant and Animal Biology
Level	3
Credit value	20
Faculty	FAST
Module Leader	Dr Ian Ratcliffe
HECoS Code	100265
Cost Code	GAFS

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BSc Forensic science (with Foundation Year)	Core
BSc Biochemistry (with Foundation Year)	Core
BSc Biomedical science (with Foundation Year)	Core
FdSc Applied Animal Behaviour, Welfare and Conservation (with Foundation Year)	Core
BSc (Hons) Animal Behaviour, Welfare and Conservation Science (with Foundation Year)	Core
BSc (Hons) Equine Science and Welfare Management (with Foundation Year)	Core

Pre-requisites

N/A

Breakdown of module hours

Learning and teaching hours	40 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	0 hrs
Placement / work based learning	0 hrs
Guided independent study	160 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	04/02/2021
With effect from date	01/09/2021
Date and details of revision	
Version number	1

Module aims

The aim of the module is to provide a broad overview of biology, contextualised in terms of plants and animals, and with emphasis on examples of relevance to students on the programme.

The module will introduce learners to the key themes in biology which are essential for students planning a career in the life sciences.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Understand evolution and how it enables living organisms to adapt to changing environments.
2	Describe the key building blocks of life.
3	Explain the basic physiology of plants and their growth, development and reproduction.
4	Describe the anatomy and physiology of the human body.

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Students will submit a portfolio based on a number of teaching sessions identified by the tutor. The portfolio will evidence:

- Students' own research into the topics
- Their contribution to group and class discussion (e.g. by reflective writing and peer assessment)
- A critical summary of class discussions.

Typically the portfolio will comprise 4 components, each of 625 words, such as a short essay, article review, reflection and short answer questions.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1-4	Portfolio	100

Derogations

None

Learning and Teaching Strategies

Key topics will be delivered by means of short introductory lectures, followed by groupwork involving consideration of case studies, and tutor-led class discussion. Directed study exercises will encourage students to research around forthcoming topics and so enhance contribution to both groupwork and class discussion.

Indicative Syllabus Outline

- The origins of life and nature's basic building blocks.
- Evolution – how organisms adapt to changing environments.
- Evolution Case Studies.
- An introduction to Plant Physiology.
- Plant growth, development and reproduction.
- An introduction to human anatomy.
- Human physiology.
- Responses of plants and animals to their internal and external environments – homeostasis, irritability, movement.
- Human behaviour

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads

Solomon, E., Martin, C., Martin, D. and Berg, L. (2018) *Biology* (11th ed.) Boston, MA: Cengage.

Other indicative reading

Mader, S.S. and Windelspecht, M. (2020) *Human Biology* (16th ed.) New York, NY: McGraw Hill Education.

Employability skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas. [Click here to read more about the Glyndwr Graduate attributes](#)

Core Attributes

Engaged

Key Attitudes

Commitment

Curiosity

Confidence

Practical Skillsets

Digital Fluency

Organisation

Leadership and Team working

Communication