

MODULE DESCRIPTOR

Module Title

Biology for Life Sciences

Reference	AS1901	Version	3
Created	August 2021	SCQF Level	SCQF 7
Approved	May 2011	SCQF Points	15
Amended	August 2021	ECTS Points	7.5

Aims of Module

To provide students with knowledge and understanding of cell biology, tissue structure, Mendelian genetics and species evolution.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Demonstrate knowledge of the basic structures, functions and growth characteristics of cells.
- 2 Demonstrate knowledge of the structure and function of the four principal tissue types.
- 3 Demonstrate an understanding of Mendelian genetic inheritance.
- 4 Demonstrate understanding of the role of variation in speciation and evolution.

Indicative Module Content

Evolution of the eukaryotic cell, membrane structure and membrane transport mechanisms, structure and function of the nucleus, ribosomes, endoplasmic reticulum, Golgi Body, lysosomes, mitochondria and chloroplasts. Mitosis and meiosis. Structure and function of epithelial, connective, nervous and muscle tissue. Mendel's Laws, inheritance, genotype, phenotype, dominance, sex determination, sex-linkage, variation, speciation and evolution.

Module Delivery

This is a lecture based module supplemented by tutorials.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type: Examination Weighting: 100% Outcomes Assessed: 1, 2, 3, 4
 Description: Closed book written examination

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

Component 1 (EX1) comprises 100% of the module grade. A minimum of a Grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	A: a score of 75% or above is required.
B	B: a score of between 60-74% is required.
C	C: a score of between 50-59% is required.
D	D: a score of between 40-49% is required.
E	E: a score of between 35-39% is required.
F	F: a score of less than 35% is required.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module None, in addition to course entry requirements.
 Corequisites for module None.
 Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

1 REECE J.B., et al. *Campbell Biology*. Current Edition. Pearson