

<b>Module Title</b> <b>Biology for Life Sciences</b>  <b>Keywords</b> Cell Biology, Tissue Structure, Mendelian Genetics, Variation and Evolution.	Reference AS1901 SCQF Level SCQF 7 SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved May 2011 Amended September 2004 Version No. 1
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## This Version is No Longer Current

The latest version of this module is available [here](#)

### Prerequisites for Module

None, in addition to course entry requirements

### Indicative Student Workload

<i>Contact Hours</i>	Full Time
Lectures	33
Tutorials	7

### Corequisite Modules

None.

<i>Directed Study</i>	
Directed Study	40

### Precluded Modules

None.

<i>Private Study</i>	
Private Study	70

### Aims of Module

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

### Mode of Delivery

Lectures and supporting tutorials.

### Assessment Plan

### Learning Outcomes for Module

	Learning Outcomes Assessed
Component 1	1,2,3,4

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.

Examination: closed book

### **Indicative Bibliography**

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