

<b>Module Title:</b>	Animal and Human Biology
<b>Language of Instruction:</b>	English
<b>Credits:</b>	5
<b>NFQ Level:</b>	6
<b>Module Delivered In</b>	<a href="#">6 programme(s)</a>
<b>Teaching &amp; Learning Strategies:</b>	<p>This module will be taught in four theory classes of one hour duration and one two hour practical per week. Practical sessions and theory will be synchronised. Synopsised lecture notes will be available for downloading by the students. Instructions for practicals will be provided in the form of photocopied excerpts from the in-house practical manual. Students will be regularly expected to reply to questions during both theory and practical sessions. Questions relating to the course will be discussed during or after lectures/practicals. Students will be referred to specialised texts available in the library and to scientific Internet resources where applicable. The practical component will: Allow the students to develop technical competency and Health and Safety protocols. Train the student in punctual submission of reports and in accurate report writing. Encourage team work and cooperative problem solving.</p>
<b>Module Aim:</b>	To provide a comprehensive overview of the Animal kingdom, its evolution and diversity, focusing on Human anatomy. The module will provide practical skills essential for further studies.
<b>Learning Outcomes</b>	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	LO 1: Students will be able to describe the distinguishing characteristics and phyla of the animal Kingdom and the evolutionary processes that shaped this Kingdom
LO2	LO 3: Students will be able to discuss the fundamental features of animal anatomy focusing on Human anatomy including tissue types and organ systems.
LO3	LO 4: Students will be competent in a wide variety of laboratory techniques in Animal Biology including histological and dissection techniques
<b>Pre-requisite learning</b>	
<b>Module Recommendations</b>	
<i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
<b>Incompatible Modules</b>	
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
<b>Co-requisite Modules</b>	
No Co-requisite modules listed	
<b>Requirements</b>	
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

## Module Content & Assessment

### Indicative Content

#### LO 1: Animal Kingdom evolution and characteristics

Evolutionary history, distinguishing features (blastula, movement, senses, collagen, tissues)

#### L02: Animal diversity

Numbers and diversity of living animals, (Extinct v Extant species) review of the major living phyla (Arthropoda, Mollusca, Porifera, Annelidia, Chordata etc) and orders in Chordata (reptilia, aves, pieces, mammalia, amphibia etc)

#### LO 3: Animal Anatomy

Common features of animal body structure and anatomy, body symmetry (Bilateral vs radial), Proteostomes v deuterostomes, Diploblastic v triploblastic, Tissue types and functions, organ systems and functions. Comparative anatomies, Human evolution and anatomy. Students will be able to identify the main organs of all human systems and understand their main functions.

### Assessment Breakdown

	%
Continuous Assessment	20.00%
Practical	40.00%
End of Module Formal Examination	40.00%

### Special Regulation

Students must achieve a minimum grade (35%) in both the CA/Practical and Final Examination

### Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Multiple Choice Questions	n/a	1,2	60.00	Week 6

No Project

### Practical

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Students will be assessed on the quality of their written reports. These should demonstrate their ability to explain, in their own words, the theory/principle behind the practical, materials and methods used, clear and detailed observations and their interpretation of their observations. Practical skill will be assessed at the end of each term via practical examinations. Students will also be required to complete one oral presentation describing a practical of their choice (theory, methods used, their results and their interpretation and conclusions.	3	40.00	Every Week

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

**Module Workload**

<b>Workload: Full Time</b>		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	12 Weeks per Stage	3.00
Practicals	12 Weeks per Stage	2.00
Independent Learning Time	15 Weeks per Stage	4.33
Total Hours		125.00

**Module Delivered In**

Programme Code	Programme	Semester	Delivery
CW_SABTP_B	<a href="#">Bachelor of Science (Honours) in Biosciences with Biopharmaceuticals</a>	2	Mandatory
CW_SABRE_B	<a href="#">Bachelor of Science (Honours) in Brewing and Distilling</a>	2	Mandatory
CW_SAPHA_B	<a href="#">Bachelor of Science (Honours) in Pharmaceutics and Drug Formulation</a>	2	Mandatory
CW_SAASC_D	<a href="#">Bachelor of Science in Analytical Science</a>	2	Mandatory
CW_SABFQ_D	<a href="#">Bachelor of Science in Biosciences</a>	2	Mandatory
CW_SASCI_C	<a href="#">Higher Certificate in Science in Applied Biology or Applied Chemistry</a>	2	Mandatory