

Module code	SB-2203		
Module Title	Animal Form and Function		
Degree/Diploma	Bachelor of Science (Biology)		
Type of Module	Major Core/Major Option		
Modular Credits	4	Total student Workload	8 hours/week
		Contact hours	6 hours/week
Prerequisite	SB-1201 Diversity of Life		
Anti-requisite	None		
Aims			
This module will help students to understand animal morphology, anatomy, structure and structural pattern, with emphasis on interpretation of structures in terms of phylogeny and function. This will include initially a survey of invertebrate and chordate phylogeny and classification.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	30%	- Identify various structures associated with the organ systems -Dissect several representative organisms to study organ systems	
Middle order :	60%	-Identify main groups of animals and understand evolutionary relationships between them	
Higher order:	10%	- Relate form of organisms to function and explain structural adaptation of organisms to habitats	
Module Contents			
Invertebrates:			
-Locomotory organelles and organs			
-Hydrostatic skeleton and exoskeleton			
-Nutrition, feeding, excretion			
-Respiration and Nervous system			
-Reproduction			
Chordates:			
-Phylogeny and classification			
-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			
-The digestive system and the urogenital system			
-The nervous system			
-Body size and allometry			
Assessment	Formative assessment	Tutorial assignments and feedback	
	Summative assessment	Examination: 60%	
		Coursework: 40% - 6 practical assignments (40%)	