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

On successful completion of this module, a student will be expected to be able to:

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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 dermaskeleton, 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%)