

Module code	SB-1201		
Module Title	Diversity of Life		
Degree/Diploma	Bachelor of Science (Biology)		
Type of Module	Major Core		
Modular Credits	4	Total student workload	8 hours/week
		Contact hours	6 hours/week
Prerequisite	None		
Anti-requisite	None		
Aims			
This module aims to introduce students to the world of living organisms and the theory of evolution as a unifying theme. The module highlights the diversity of life by studying major phyla according a classification system based on 3 domains and 5 kingdoms.			
Learning Outcomes:			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	30%	<ul style="list-style-type: none"> - Explain basic mechanisms for the evolution and origin of species - Describe relationship of the 5 biological kingdoms used in the modern classification system 	
Middle order :	60%	<ul style="list-style-type: none"> - Describe the phylogenetic relationships (molecular and morphological) for selected animal and plant phyla - Identify the phylum of selected material using key diagnostic features of major plant and animal taxa, - Analyse basic structure-function relationships 	
Higher order:	10%	<ul style="list-style-type: none"> - Use light microscopy and perform simple drawings of structures using a microscope - Perform simple dissections and prepare slides of animal parts 	
Module Contents			
<ul style="list-style-type: none"> - Evidence for evolution, mechanisms of evolution - Origin of species - Tracing evolution through phylogeny - Extinction and radiation based on selected case studies - Differences between Prokaryotes and Eukaryotes - Classification and the taxonomic hierarchy - Origins and relationships of the 5 kingdoms - The evolutionary relationships within and between the main groups of organisms - How evolutionary relationship is reflected in the classification - Prokaryotes, viruses, Protista (animal protists, plant protists and algae) - Bryophytes, ferns, gymnosperms, - Angiosperms - Fungi, Porifera, Cnidaria, - Platyhelminthes, Nematoda, Annelida - Mollusca, Arthropoda, Echinodermata and Chordata - Man's origins and relationships to the living world 			
Assessment	Formative assessment	Tutorial assignments and feedback	
	Summative assessment	<ul style="list-style-type: none"> Examination: 60% Coursework: 40% - 5 practical reports (30%) - 2 class tests (10%) 	