

BDC334 — Biogeography and Global Ecology 334		
Faculty	Natural Sciences	
Home Department	Biodiversity and Conservation Biology	
Module Topic	Biogeography and Global Ecology	
Generic Module Name	Biogeography and Global Ecology 334	
Alpha-numeric Code	BDC334	
NQF Level	7	
NQF Credit Value	30	
Duration	Semester	
Proposed semester offered	Second Semester	
Programmes	BSc (Biodiversity and Conservation Biology) (3217, 3015)	
Year level	3	
Main Outcomes	<ul style="list-style-type: none"> • Discuss the past, present and projected future patterns of global biogeography. • Examine the distribution of past floras, faunas and climate with respect to plate tectonics and compare them with current distributions. • Explain the role that the major environmental drivers play in driving biogeographical patterns. • Understand the physical basis underpinning the components of global change. • Recognise the central importance that humans play in bringing about global change. • Understand the ecological, physiological and behavioural basis for biogeographical change. • Contrast the fundamental differences between ecological biogeography and historical biogeography. • Consider the biogeography of key extant plant and animal lineages. • Apply appropriate concepts to collect, analyse and interpret multivariate environmental and ecological data. • Present their position on the above in discussion or in written format. 	
Main Content	<ul style="list-style-type: none"> • Global biogeography: key principles and concepts. • Continental drift and glaciation. • Theories of biogeography and biogeographic reconstruction. • Phylogeography. • Latitudinal gradients in diversity. • Interactions of body and population size on diversity and distribution. • Island biogeography theory and its applications for conservation. • Earth as a system. • The physical nature of environmental drivers of biogeography. • Global change: the distinction between natural variability and anthropogenically-driven change. • Overview of the biological responses to global change. • Basic data collection and analytical methods in biogeography. 	
Pre-requisite modules	BDC211 and BDC221 and BDC223	
Co-requisite modules	None	
Prohibited module combination	None	
Breakdown of Learning Time	Component	Hours
	Contact with lecturer / tutor	42
	Assignments & tasks	64
	Practicals	84
	Assessments	10
	Self-study	100
	Other	0
	Total Learning Time	300
Method of Student Assessment	Continuous Assessment (CA): 60%	
Assessment Module type	Final Assessment (FA): 40%	
	Continuous and Final Assessment (CFA)	