

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