
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	<table><thead><tr><th>Component</th><th>Hours</th><th>Time-table requirement / other modes</th></tr></thead><tbody><tr><td>Contact with lecturer / tutor</td><td>42</td><td>Lectures p.w.: 3</td></tr><tr><td>Assignments & tasks</td><td>64</td><td></td></tr><tr><td>Practicals</td><td>84</td><td>Practicals p.w.: 2×3</td></tr><tr><td>Assessments</td><td>10</td><td>Tutorials p.w.: 1</td></tr><tr><td>Self-study</td><td>100</td><td></td></tr><tr><td>Other</td><td>0</td><td></td></tr><tr><td>Total Learning Time</td><td>300</td><td></td></tr></tbody></table>	Component	Hours	Time-table requirement / other modes	Contact with lecturer / tutor	42	Lectures p.w.: 3	Assignments & tasks	64		Practicals	84	Practicals p.w.: 2×3	Assessments	10	Tutorials p.w.: 1	Self-study	100		Other	0		Total Learning Time	300	
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Method of Student Assessment	Continuous Assessment (CA): 60%																								
Assessment Module Type	Final Assessment (FA): 40% Continuous and Final Assessment (CFA)																								
