

# University of Pretoria Yearbook 2016

## Biogeography and macro-ecology 809 (ZEN 809)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	15.00
<b>Programmes</b>	<a href="#">MA Environment and Society (Coursework)</a> <a href="#">MSc Environmental Ecology (Coursework)</a>
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	4 discussion classes per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Zoology and Entomology
<b>Period of presentation</b>	Year

### Module content

Biogeographic consequences of plate tectonics, Pleistocene southern African climatic, geological, edaphic and geomorphological patterns. Reconstructing biogeographic histories (speciation, extinction, dispersal, vicariance, endemism, provincialism and disjunction); phytogeographical patterns, biomes, vegetation types. Methodological issues in macro-ecology; patterns of body size, abundance and energetics; geographic range sizes; species dynamics in landscapes; implications of macro-ecological patterns to ecology; biogeography and evolution; macro-ecological perspectives on conservation: species richness, hierarchical diversity, hotspots, spatial and temporal patterns in diversity (genetic, taxonomic, functional); causal mechanisms, species diversity, biodiversity and global change.

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