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# University of Pretoria Yearbook 2019

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

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| <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><br><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>    | Module is presented in English  |
| <b>Department</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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