

University of Pretoria Yearbook 2016

Conservation planning and monitoring 808 (ZEN 808)

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| Qualification | Postgraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 15.00 |
| Programmes | MSc Environmental Ecology (Coursework) |
| Prerequisites | No prerequisites. |
| Contact time | 4 discussion classes per week |
| Language of tuition | English |
| Academic organisation | Zoology and Entomology |
| Period of presentation | Year |

Module content

Biodiversity survey techniques; data and information management; data assessment; principles of data extrapolation; inventories; biodiversity risk assessment (PHVA, small and declining population paradigms, prioritisation); principles of reserve selection; surrogacy; reserve design; integrated land-use planning. Landscape theories and models (hierarchy, percolation, metapopulation, source-sink); scaling patterns and processes across landscapes (patches, corridors, mosaics and flows); emerging patterns and processes; principles of landscape dynamics; principles of landscape conservation, management and design (transformation, fragmentation); methods in landscape ecology (numerical and spatial data processing, fractal geometry approach, GIS, remote sensing, GPS, spatially explicit population models). Skills: GradSect, Access, Excel, Visual Basic, GIS (Arc View) reserve selection algorithms.

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