

University of Pretoria Yearbook 2016

Conservation planning and monitoring 808 (ZEN 808)

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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