



University of Pretoria Yearbook 2018

Physiological processes 361 (ZEN 361)

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| Qualification | Undergraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 18.00 |
| Programmes | BSc Ecology BSc Entomology BSc Genetics BSc Zoology |
| Service modules | Faculty of Education |
| Prerequisites | No prerequisites. |
| Contact time | 2 practicals per week, 4 lectures per week |
| Language of tuition | Module is presented in English |
| Department | Zoology and Entomology |
| Period of presentation | Quarter 3 |

Module content

This module focuses on the means by which animals can sense and respond to the external and internal environment. Topics covered include: (i) the structure and function of biological membranes; (ii) neurons and nervous systems; (iii) sensing the environment; (iv) glands, hormones and regulation of development and growth; (v) muscles and animal movement and (vi) the initiation and control of behaviour. The implications of these physiological processes for animal conservation and management will be emphasised. A comparative approach will be adopted throughout the module to highlight the commonalities as well as the ways in which animal lineages have achieved similar functional outcomes from different structural adaptations.

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