

University of Pretoria Yearbook 2020

Physiological processes 361 (ZEN 361)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 18.00

Programmes [BSc Biochemistry](#)

[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. In line with UN sustainable development goals, 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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