

# University of Pretoria Yearbook 2019

## Introductory soil science 250 (GKD 250)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Natural and Agricultural Sciences
<b>Module credits</b>	12.00
<b>Programmes</b>	BSc Landscape Architecture
	BSc Biotechnology
	BSc Chemistry
	BSc Ecology
	BSc Engineering and Environmental Geology
	BSc Environmental Sciences
	BSc Geography
	BSc Geology
	BSc Meteorology
	BSc Plant Science
	BSc Zoology
	BScAgric Agricultural Economics and Agribusiness Management
	BScAgric Animal Science
	BScAgric Applied Plant and Soil Sciences
	BScAgric Plant Pathology
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b>	CMY 117 GS or permission from the HOD
<b>Contact time</b>	3 lectures per week, 1 practical per week
<b>Language of tuition</b>	Separate classes for Afrikaans and English
<b>Department</b>	Department of Plant and Soil Sciences
<b>Period of presentation</b>	Semester 1

### Module content

Origin and development of soil, weathering and soil formation processes. Profile differentiation and morphology. Physical characteristics: texture, structure, soil water, atmosphere and temperature. Chemical characteristics: clay minerals, ion exchange, pH, buffer action, soil acidification and salinisation of soil. Soil fertility and fertilisation. Soil classification. Practical work: Laboratory evaluation of simple soil characteristics. Field practicals on soil formation in the Pretoria area.



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