

University of Pretoria Yearbook 2017

Introductory soil science 250 (GKD 250)

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| Qualification | Undergraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 12.00 |
| Programmes | 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 and Pasture Science |
| | BScAgric Animal Science |
| | BScAgric Applied Plant and Soil Sciences |
| | BScAgric Plant Pathology |
| Service modules | Faculty of Engineering, Built Environment and Information Technology |
| Prerequisites | CMY 117 GS or TDH |
| Contact time | 1 practical per week, 3 lectures per week |
| Language of tuition | Separate classes for Afrikaans and English |
| Academic organisation | Plant and Soil Sciences |
| Period of presentation | 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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