

University of Pretoria Yearbook 2017

Sustainable crop production and agroclimatology 251 (PPK 251)

Qualification Undergraduate

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

Module credits 15.00

Programmes [BSc Biotechnology](#)

[BSc Environmental Sciences](#)

[BScAgric Agricultural Economics and Agribusiness Management](#)

[BScAgric Animal and Pasture Science](#)

[BScAgric Animal Science](#)

[BScAgric Applied Plant and Soil Sciences](#)

[BScAgric Plant Pathology](#)

Prerequisites BOT 161

Contact time 3 lectures per week, fortnightly practicals

Language of tuition Separate classes for Afrikaans and English

Academic organisation Plant and Soil Sciences

Period of presentation Semester 2

Module content

Influence of climate on cropping systems in South Africa. The surface energy balance. Hydrological cycles and the soil water balance. Sustainable crop production. Simple radiation and water limited models. Potential yield, target yield and maximum economic yield. Crop nutrition and fertiliser management. Principles of soil cultivation and conservation. Climate change and crop production – mitigation and adaptation.

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