



University of Pretoria Yearbook 2016

Sustainable crop production and agroclimatology 251 (PPK 251)

Qualification Undergraduate

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

Module credits 15.00

Programmes [BSc Biotechnology](#)

[BScAgric Agricultural Economics: Agribusiness Management](#)

[BScAgric Animal Science](#)

[BScAgric Animal Science: Pasture Science](#)

[BScAgric Option: Applied Plant and Soil Sciences](#)

[BScAgric Plant Pathology](#)

Prerequisites BOT 161

Contact time 3 lectures per week, fortnightly practicals

Language of tuition Both Afr and Eng

Academic organisation Plant Production and Soil Sc

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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