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# University of Pretoria Yearbook 2017

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## 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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