

University of Pretoria Yearbook 2016

Animal breeding and genetics 801 (TLR 801)

Qualification Postgraduate

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

Module credits 15.00

Programmes [MScAgric Animal Science: Livestock Production and Ecology](#)

Prerequisites No prerequisites.

Contact time 2 practicals per week, 1 seminar per week, 1 discussion class per week

Language of tuition Both Afr and Eng

Academic organisation Animal and Wildlife Sciences

Period of presentation Year

Module content

Specialised studies in quantitative and molecular animal breeding in various livestock species. Advanced statistical modelling and EBV estimation. Application of genetic theory in practice with relation to heritability of quantitative characteristics. Advanced theory on the role of molecular technology in genetic improvement of farm animals. Experimental designs for QTL and MAS research and biodiversity studies as well as principles of genomic EBVs and GWAS. The study entails seminars, a literature study and discussion of selected topics relating to the industry specialisation programme. Discussion of research methods and results under local conditions. Policies regarding animal breeding.

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