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# University of Pretoria Yearbook 2019

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## Animal breeding and genetics 801 (TLR 801)

**Qualification** Postgraduate

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

**Module credits** 15.00

**Prerequisites** No prerequisites.

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

**Language of tuition** Module is presented in English

**Department** 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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