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# University of Pretoria Yearbook 2021

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## Animal breeding 411 (TLR 411)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	12.00
<b>NQF Level</b>	08
<b>Programmes</b>	<a href="#">BScAgric Animal Science</a>
<b>Prerequisites</b>	TLR 320 and GTS 261 and simultaneously register for GVK 420 and PVK 420
<b>Contact time</b>	1 practical per week, 2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Animal Science
<b>Period of presentation</b>	Semester 1

### Module content

Components of animal performance. Sources of variation, population parameters and the estimation thereof. Introduction to matrix algebra for application in animal breeding. Selection indices theory. Statistical models in estimation of breeding values. Application of breeding values and prerequisites for accuracy. Breeding and selection for reproduction and growth. Principles of QTLs.

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