

University of Pretoria Yearbook 2017

BScAgric Animal and Pasture Science (02133432)

Duration of study 4 years

Total credits 573

Admission requirements

- The following persons will be considered for admission: a candidate who is in possession of a certificate that is deemed by the University to be equivalent to the required Grade 12 certificate with university endorsement; a candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution; and a candidate who is a graduate of another faculty at the University of Pretoria.
- Life Orientation is excluded in the calculation of the Admission Point Score (APS).
- Grade 11 results are used for the provisional admission of prospective students. Final admission is based on the Grade 12 results.

Minimum requirements

Achievement level

Afrikaans or English

Mathematics of English				Mathematics				Physical Sciences				APS
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
5	3	C	C	5	3	C	C	5	3	C	C	30

Candidates who do not comply with the minimum admission requirements for BSc (Animal Science and Pasture Science), may be considered for admission to the BSc – Extended programme for the Biological and Agricultural Sciences. The BSc – Extended programme takes one year longer to complete.

BSc - Extended programme for the Biological and Agricultural Sciences:

Minimum requirements

Achievement level

Afrikaans or English

Mathematics				Physical Sciences				APS				
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	APS
4	3	D	D	4	3	D	D	4	3	D	D	24

Other programme-specific information

Compilation of curriculum

Students must register for elective modules in consultation with the head of department who must ensure that the modules do not clash on the set timetable.

The Dean may, in exceptional cases and on recommendation of the head of department, approve deviations from the prescribed curriculum.

Promotion to next study year

A student will be promoted to the following year of study if he or she passed 100 credits of the prescribed credits for a year of study, unless the Dean on the recommendation of the head of department decides otherwise. A student who does not comply with the requirements for promotion to the following year of study, retains the credit for the modules already passed and may be admitted by the Dean, on recommendation of the head of department, to modules of the following year of study to a

maximum of 48 credits, provided that it will fit in with both the lecture and examination timetable.

Pass with distinction

The BScAgric degree is conferred with distinction if a student obtains a weighted average of at least 75% in the modules of the major subjects in the third and the fourth year of study, with a weighted average of at least 65% in the other modules of the third and the fourth year of study.



Curriculum: Year 1

Minimum credits: 140

Minimum credits:

Fundamental = 12

Core = 128

Additional information:

Students who do not qualify for AIM 102 must register for AIM 111 and AIM 121.

Fundamental modules

[Academic information management 111](#) (AIM 111) - Credits: 4.00

[Academic information management 121](#) (AIM 121) - Credits: 4.00

[Language and study skills 110](#) (LST 110) - Credits: 6.00

[Academic orientation 102](#) (UPO 102) - Credits: 0.00

[Academic information management 102](#) (AIM 102) - Credits: 6.00

Core modules

[Biometry 120](#) (BME 120) - Credits: 16.00

[Plant biology 161](#) (BOT 161) - Credits: 8.00

[General chemistry 117](#) (CMY 117) - Credits: 16.00

[General chemistry 127](#) (CMY 127) - Credits: 16.00

[Introductory genetics 161](#) (GTS 161) - Credits: 8.00

[Introduction to microbiology 161](#) (MBY 161) - Credits: 8.00

[Molecular and cell biology 111](#) (MLB 111) - Credits: 16.00

[Physics for biology students 131](#) (PHY 131) - Credits: 16.00

[Mathematics 134](#) (WTW 134) - Credits: 16.00

[Animal diversity 161](#) (ZEN 161) - Credits: 8.00



Curriculum: Year 2

Minimum credits: 168

Minimum credits:

Core = 168

Core modules

Introduction to proteins and enzymes 251 (BCM 251) - Credits: 12.00

Carbohydrate metabolism 252 (BCM 252) - Credits: 12.00

Lipid and nitrogen metabolism 261 (BCM 261) - Credits: 12.00

Biochemical principles of nutrition and toxicology 262 (BCM 262) - Credits: 12.00

South African flora and vegetation 251 (BOT 251) - Credits: 12.00

Plant physiology and biotechnology 261 (BOT 261) - Credits: 12.00

Animal anatomy and physiology 200 (DAF 200) - Credits: 32.00

Introductory soil science 250 (GKD 250) - Credits: 12.00

Genetic diversity and evolution 261 (GTS 261) - Credits: 12.00

Sustainable crop production and agroclimatology 251 (PPK 251) - Credits: 15.00

Animal science 250 (VKU 250) - Credits: 8.00

Animal Science 260 (VKU 260) - Credits: 8.00



Curriculum: Year 3

Minimum credits: 130

Minimum credits:

Core = 130

Core modules

Animal anatomy 310 (DAN 310) - Credits: 8.00

Animal physiology 311 (DFS 311) - Credits: 10.00

Growth physiology 320 (DFS 320) - Credits: 12.00

Introduction to agricultural economics 210 (LEK 210) - Credits: 12.00

Reproduction science 310 (RPL 310) - Credits: 8.00

Reproduction science 320 (RPL 320) - Credits: 10.00

Animal breeding 320 (TLR 320) - Credits: 12.00

Nutrition science 301 (VGE 301) - Credits: 28.00

Principles of veld management 310 (WDE 310) - Credits: 12.00

Planted pastures and fodder crops 320 (WDE 320) - Credits: 12.00

Curriculum: Final year

Minimum credits: 136

Minimum credits:

Core = 136

Core modules

Soil classification and surveying 350 (GKD 350) - Credits: 14.00

Large stock nutrition and production 420 (GVK 420) - Credits: 18.00

Small stock nutrition and production 420 (KVK 420) - Credits: 18.00

Monogastric nutrition and production 411 (VGE 411) - Credits: 16.00

Animal science pharmacology 411 (VKF 411) - Credits: 8.00

Meat and dairy science 420 (VSX 420) - Credits: 8.00

Environmental resource assessment and management 450 (WDE 450) - Credits: 15.00

Wildlife science 420 (WKE 420) - Credits: 8.00

Research methodology 400 (VKU 400) - Credits: 16.00

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.