

University of Pretoria Yearbook 2021

BScAgric Applied Plant and Soil Sciences (02133431)

Department Plant Science

Minimum duration of study 4 years

Total credits 575

NQF level 08

Admission requirements

- The closing date is an administrative admission guideline for non-selection programmes. Once a non-selection programme is full and has reached the institutional targets, then that programme will be closed for further admissions, irrespective of the closing date. However, if the institutional targets have not been met by the closing date, then that programme will remain open for admissions until the institutional targets are met.
- The following persons will be considered for admission: candidates who are in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate with university endorsement, candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded from the calculation of the Admission Point Score (APS).
- Grade 11 results are used for the conditional admission of prospective students. Final admission is based on Grade 12 results.
- Please note that the Faculty does not accept GED and School of Tomorrow qualifications for entry into our programmes.

Transferring students

Candidates previously registered at UP or at another university

The faculty's Admissions Committee considers applications of candidates who have already completed the final NSC or equivalent qualification examination and/or were previously registered at UP or another university, on grounds of their final NSC or equivalent qualification results as well as academic merit.

Candidates previously registered at a FET college or a university of technology

The faculty's Admissions Committee considers the application of these candidates on the grounds of their final NSC or equivalent qualification results as well as academic merit.

Qualifications from countries other than South Africa

- Citizens from countries other than South Africa and South African citizens with foreign qualifications must comply with all the other admission requirements and the prerequisites for subjects/modules.
- In addition to meeting the admission requirements, admission is based on the performance in the **TOEFL, IELTS or SAT**, if required.
- Candidates must have completed the National Senior Certificate with admission to degree studies or a



certificate of conditional exemption on the basis of a candidate's foreign qualifications, the so-called "Immigrant" or "Foreign Conditional Exemption". The only condition for the "Foreign Conditional Exemption" that is accepted is: 'completion of the degree course'. The exemption certificate is obtainable from Universities South Africa (USAf). Detailed information is available on the website at [click here](#).

University of Pretoria website: [click here](#)

Minimum requirements

Achievement level

English Home

Language or

English First

Additional

Language

		Mathematics		Physical Sciences		APS
NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
5	C	5	C	5	C	32

* Cambridge A level candidates who obtained at least a D in the required subjects, will be considered for admission. Students in the Cambridge system must offer both Physics AND Chemistry with performance at the level specified for NSC Physical Sciences in the table above.

* International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission. Students in the IB system must offer both Physics AND Chemistry with performance at the level specified for NSC Physical Sciences in the table above.

Candidates who do not comply with the minimum admission requirements for BScAgric (Applied Plant and Soil Sciences), may be considered for admission to the BSc – Extended programme – Biological and Agricultural Sciences. This programme takes a year longer than the normal programmes to complete.

BSc - Extended Programme - Biological and Agricultural Sciences

Minimum requirements

Achievement level

English Home

Language or

English First

Additional

Language

		Mathematics		Physical Sciences		APS
NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
4	D	4	D	4	D	26

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 relevant 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 relevant 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 relevant 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: 142

Fundamental = 12

Core modules = 128

Additional information:

Students intending to apply for the BVSc selection have to enrol for MTL 180(12).

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

Core modules

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

[Plants and society 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: 135

Core modules

- Introduction to proteins and enzymes 251 (BCM 251) - Credits: 12.00
- South African flora and vegetation 251 (BOT 251) - Credits: 12.00
- Plant physiology and biotechnology 261 (BOT 261) - Credits: 12.00
- Introductory soil science 250 (GKD 250) - Credits: 12.00
- Molecular genetics 251 (GTS 251) - Credits: 12.00
- Genetic diversity and evolution 261 (GTS 261) - Credits: 12.00
- Introduction to agricultural economics 210 (LEK 210) - Credits: 12.00
- Agricultural economics 220 (LEK 220) - Credits: 12.00
- Introduction to crop protection 251 (PLG 251) - Credits: 12.00
- Principles of plant pathology 262 (PLG 262) - Credits: 12.00
- Sustainable crop production and agroclimatology 251 (PPK 251) - Credits: 15.00



Curriculum: Year 3

Minimum credits: 148

Core modules

Field crops 361 (AGR 361) - Credits: 14.00

Plant ecophysiology 356 (BOT 356) - Credits: 18.00

Soil chemistry 320 (GKD 320) - Credits: 14.00

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

Principles and practices 351 (HSC 351) - Credits: 14.00

Soil-water relationship and irrigation 350 (PGW 350) - Credits: 14.00

Plant disease control 363 (PLG 363) - Credits: 18.00

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

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

Applied entomology 365 (ZEN 365) - Credits: 18.00



Curriculum: Final year

Minimum credits: 150

Core modules

Vegetable crops 410 (AGR 410) - Credits: 15.00

Crop physiology 461 (APS 461) - Credits: 15.00

Statistics for biological sciences 410 (BME 410) - Credits: 15.00

Soil fertility, soil microbiology and plant nutrition 420 (GKD 420) - Credits: 15.00

Fruit tree crops 420 (HSC 420) - Credits: 15.00

Ornamental horticulture 490 (HSC 490) - Credits: 15.00

Environmental biophysics 450 (LKM 450) - Credits: 15.00

Weed science 413 (OKW 413) - Credits: 15.00

Seminar 400 (PGW 400) - Credits: 15.00

Advanced pasture science 450 (WDE 450) - Credits: 15.00

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.