



# University of Pretoria Yearbook 2017

## BSc Environmental Sciences (02133362)

**Duration of study** 3 years

**Total credits** 428

### 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				Physical Science				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	32

Candidates who do not comply with the minimum admission requirements for BSc (Environmental Sciences), may be considered for admission to the BSc - Extended programme for the Physical Sciences. The BSc - Extended programme takes place over a period of four years instead of the normal three years.

### Admission requirements for BSc Extended programme for Physical Sciences:

Minimum requirements												
Achievement level												
Afrikaans or English				Mathematics				Physical Science				APS
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
4	3	D	D	4	3	D	D	4	3	D	D	26

### Other programme-specific information

A student must pass all the minimum prescribed and elective module credits as set out at the end of each year within a programme as well as the total required credits to comply with the particular degree programme. Please refer to the curricula of the respective programmes. At least 144 credits must be obtained at 300-/400-level, or otherwise as indicated by curriculum. The minimum module credits needed to comply with degree requirements is set out at the end of each study programme. Subject to the programmes as indicated a maximum of 150 credits will be recognised at 100-level. A student may, in consultation with the Head of Department and subject to the permission by the Dean, select or replace prescribed module credits not indicated in BSc three-year study programmes to the equivalent of a maximum of 36 module credits.

It is important that the total number of prescribed module credits is completed during the course of the study

programme. The Dean may, on the recommendation of the Head of Department, approve deviations in this regard. Subject to the programmes as indicated in the respective curricula, a student may not register for more than 75 module credits per semester at first-year level subject to permission by the Dean. A student may be permitted to register for up to 80 module credits in a the first semester during the first year provided that he or she obtained a final mark of no less than 70% for grade 12 Mathematics and achieved an APS of 34 or more in the NSC.

Students who are already in possession of a bachelor's degree, will not receive credit for modules of which the content overlap with modules from the degree that was already conferred. Credits will not be considered for more than half the credits passed previously for an uncompleted degree. No credits at the final-year or 300- and 400-level will be granted.

The Dean may, on the recommendation of the programme manager, approve deviations with regard to the composition of the study programme.

Please note: Where elective modules are not specified, these may be chosen from any modules appearing in the list of modules.

It remains the student's responsibility to ascertain, prior to registration, whether they comply with the prerequisites of the modules they want to register for.

The prerequisites are listed in the Alphabetical list of modules.

## 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.

### **General promotion requirements in the faculty**

All students whose academic progress is not acceptable can be suspended from further studies.

- A student who is excluded from further studies in terms of the stipulations of the abovementioned regulations, will be notified in writing by the Dean or Admissions Committee at the end of the relevant semester.
- A student who has been excluded from further studies may apply in writing to the Admissions Committee of the Faculty of Natural and Agricultural Sciences for re-admission.
- Should the student be re-admitted by the Admissions Committee, strict conditions will be set which the student must comply with in order to proceed with his/her studies.
- Should the student not be re-admitted to further studies by the Admissions Committee, he/she will be informed in writing.
- Students who are not re-admitted by the Admissions Committee have the right to appeal to the Senior Appeals Committee.
- Any decision taken by the Senior Appeals Committee is final.



## Pass with distinction

A student obtains his or her degree with distinction if all prescribed modules at 300-level (or higher) are passed in one academic year with a weighted average of at least 75%, and obtain at least a subminimum of 65% in each of the relevant modules.



## 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.

**Students can take WTW 114 instead of WTW 134 if they meet the entry requirement.**

BSc (Geography) and BSc (Environmental Sciences) students may register for WKD 155. Students are not allowed to earn credits for both WKD 155 and WKD 164.

### 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

Aspects of human geography 156 (GGY 156) - Credits: 8.00

Southern African geomorphology 166 (GGY 166) - Credits: 8.00

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

Climate and weather of Southern Africa 164 (WKD 164) - Credits: 8.00

Mathematics 134 (WTW 134) - Credits: 16.00

Animal diversity 161 (ZEN 161) - Credits: 8.00

Introduction to environmental sciences 101 (ENV 101) - Credits: 8.00



## Curriculum: Year 2

**Minimum credits: 144**

**Minimum credits:**

Core = 84

Elective = 60

**Additional information:**

Electives can be chosen from the following departments: Geography, Geoinformatics and Meteorology, Geology, Plant Production and Soil Science, Physics, Chemistry, Plant Science, Mathematics and Applied Mathematics, Zoology and Entomology, Anthropology and Archaeology and Computer Science.

### Core modules

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

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

[Process geomorphology 252](#) (GGY 252) - Credits: 12.00

[Introductory geographic information systems 283](#) (GGY 283) - Credits: 14.00

[Introductory soil science 250](#) (GKD 250) - Credits: 12.00

[Invertebrate biology 251](#) (ZEN 251) - Credits: 12.00

[African vertebrates 261](#) (ZEN 261) - Credits: 12.00

### Elective modules

[Geographic data analysis 220](#) (GIS 220) - Credits: 14.00

[Remote sensing 220](#) (GMA 220) - Credits: 14.00

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

[Physical meteorology 261](#) (WKD 261) - Credits: 12.00

[City structure, environment and society 266](#) (GGY 266) - Credits: 24.00



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## Curriculum: Final year

**Minimum credits: 144**

**Minimum credits:**

Core = 84

Elective = 60

### Core modules

Environmental geomorphology 361 (GGY 361) - Credits: 18.00

Geographic information systems 310 (GIS 310) - Credits: 24.00

Spatial analysis 320 (GIS 320) - Credits: 22.00

Human environmental interactions 301 (ENV 301) - Credits: 18.00

### Elective modules

Plant ecology 358 (BOT 358) - Credits: 18.00

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

Remote sensing 320 (GMA 320) - Credits: 22.00

Population ecology 351 (ZEN 351) - Credits: 18.00

Community ecology 353 (ZEN 353) - Credits: 18.00

Behavioural ecology 363 (ZEN 363) - Credits: 18.00

Conservation ecology 364 (ZEN 364) - Credits: 18.00

Sustainable development 356 (GGY 356) - Credits: 18.00

Development frameworks 366 (GGY 366) - Credits: 18.00

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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.