

# University of Pretoria Yearbook 2021

## BSc Geography and Environmental Science (02133363)

<b>Department</b>	Geography, Geoinformatics and Meteorology
<b>Minimum duration of study</b>	3 years
<b>Total credits</b>	405
<b>NQF level</b>	07

### 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	<b>34</b>

\* 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 BSc (Geography and Environmental Sciences), may be considered for admission to the BSc - Extended programme - Physical Sciences. This programme takes a year longer than the normal programmes to complete.

### BSc - Extended Programme - Physical 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	<b>28</b>

## Other programme-specific information

Students may choose elective modules based on the requirements for the specific second majors available for the programme. It remains the students' responsibility to ascertain, prior to registration, whether they comply with the prerequisites of the modules they want to register for.

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 will be granted at the final-year level.

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## 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. 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.

- 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 readmission.
- Should the student be readmitted 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 readmitted to further studies by the Admissions Committee, he/she will be informed in writing.
- Students who are not readmitted 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: 128

Fundamental = 14

Core = 66

Elective = 48

## Additional Information

Students are advised to choose elective modules based on the requirements for a second major of interest. It is the student's responsibility to ensure that all prerequisites are taken into account. Choose electives according to the combinations below with a view to pursuing specialisation in the relevant field. Continue with the electives pertaining to the specific second major chosen, through to the second and third years of study.

- **Geoinformatics as a second major:** INF 154 (S1, 10), INF 171 (S1 & 2, 10 + 10) INF 164 (S2, 10), INF 112 (S2, 10) [20 + 30 = 50]
- **Plant Science as a second major:** MLB 111 (S1, 16), BOT 161 (S2, 8), CMY 117 (S1, 16), CMY 127 (S2, 16) [32 + 24 = 56]
- **Soil Science as a second major:** CMY 117 (S1, 16), CMY 127 (S2, 16), MLB 111 (S1, 16) [32 + 16 = 48]

Possibilities for second majors in Social Sciences (two options)

- **Anthropology as a second major:** APL 110 (S1, 12), APL 120 (S2, 12), EFK 110 (S1, 12), EFK 120 (S2, 12) [24 + 24 = 48] - towards BSocSciHons (Anthropology)
- **Heritage and Cultural Tourism as second major:** EFK 110 (S1, 12), EFK 120 (S2, 12), APL 110 (S1,12), APL 120 (S2, 12) = [24 + 24 = 48] - towards BSocSciHons (Heritage and Cultural Tourism)

## 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

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

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

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

Cartography 110 (GMC 110) - Credits: 10.00

Mathematics 134 (WTW 134) - Credits: 16.00

## Elective modules

Introduction to Social Anthropology 110 (APL 110) - Credits: 12.00

Advanced introduction to Social Anthropology 120 (APL 120) - Credits: 12.00

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

Introduction to tourism 110 (EFK 110) - Credits: 12.00

Heritage tourism management 120 (EFK 120) - Credits: 12.00



[Informatics 112](#) (INF 112) - Credits: 10.00

[Informatics 154](#) (INF 154) - Credits: 10.00

[Informatics 164](#) (INF 164) - Credits: 10.00

[Informatics 171](#) (INF 171) - Credits: 20.00

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



## Curriculum: Year 2

### Minimum credits: 141

Core = 82

Elective = 59

### Additional information

Continue with electives pertaining to the second major chosen in the first year of study.

- **Geoinformatics as a second major:** INF 214 (S1, 14), INF 225 (S1, 14), INF 261 (S2, 7), SUR 220 (S2, 14), FIL 251 (10) [28 + 31 = 59]
- **Plant Science as a second major:** BOT 251 (S1, 12), MBY 251 (S1, 12), MBY 261 (S2, 12), GKD 250 (S1, 12), BOT 261 (S2, 12) [36 + 24 = 60]
- **Soil Science as a second major:** GKD 250 (S1, 12), SUR 220 (S2, 14), BOT 251 (S1, 12), BOT 261 (S2, 12), WKD 261 (Q1, 12) [36 + 26 = 62]

Possibilities for second majors in Social Sciences (two options)

- **Anthropology as a second major:** APL 210 (S1, 20), APL 220 (S2, 20), EFK 210 (S1, 20) or EFK 220 (S2, 20) [20 + 40 = 60]
- **Heritage and Cultural Tourism as second major:** EFK 210 (S1, 20), EFK 220 (S2, 20), APL 210 (S1, 20) or APL 220 (S2, 20) [20 + 40 = 60]

### Core modules

Environmental sciences 201 (ENV 201) - Credits: 14.00

City, structure, environment and society 201 (GGY 201) - Credits: 14.00

Process geomorphology 252 (GGY 252) - Credits: 12.00

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

Geographic data analysis 220 (GIS 220) - Credits: 14.00

Remote sensing 220 (GMA 220) - Credits: 14.00

### Elective modules

Sex, culture and society 210 (APL 210) - Credits: 20.00

Anthropology 220 (APL 220) - Credits: 20.00

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

Tourism and representation 210 (EFK 210) - Credits: 20.00

Community-based tourism 220 (EFK 220) - Credits: 20.00

Introduction to moral and political philosophy 251 (FIL 251) - Credits: 10.00

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

Informatics 214 (INF 214) - Credits: 14.00

Informatics 225 (INF 225) - Credits: 14.00

Informatics 261 (INF 261) - Credits: 7.00

Bacteriology 251 (MBY 251) - Credits: 12.00

Mycology 261 (MBY 261) - Credits: 12.00

Surveying 220 (SUR 220) - Credits: 14.00

Physical meteorology 261 (WKD 261) - Credits: 12.00



## Curriculum: Final year

**Minimum credits: 136**

Core = 76

Elective = 60

### Additional information

Continue with electives pertaining to the second major chosen in the first and second years of study.

- **Geoinformatics as a second major:** GIS 320 (S1, 22), GMC 310 (S1, 22), GMA 320 (S2, 22) [44 + 22 = 66]
- **Plant Science as a second major:** BOT 356 (S1, 18), BOT 358 (S1, 18), BOT 365 (S2, 18), BOT 366 (S2, 18) [36 + 36 = 72]
- **Soil Science as a second major:** BOT 358 (S1, 18), GKD 350 (S1, 14), GKD 320 (S2, 14), BOT 366 (S2, 18), [32 + 32 = 64]

Possibilities for second majors in Social Sciences (two options)

- **Anthropology as a second major:** APL 310 (S1, 30), APL 320 (S2, 30) [30 + 30 = 60]
- **Heritage and Cultural Tourism as a second major:** EFK 310 (S1, 30), EFK 320 (S2, 30) [30 + 30 = 60]

### Core modules

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

Theories and applications of human geography 301 (GGY 301) - Credits: 18.00

Environmental geomorphology 361 (GGY 361) - Credits: 18.00

Geographic information systems 310 (GIS 310) - Credits: 22.00

### Elective modules

Decoloniality, Anthropology and Africa 310 (APL 310) - Credits: 30.00

Anthropology 320 (APL 320) - Credits: 30.00

Plant ecophysiology 356 (BOT 356) - Credits: 18.00

Plant ecology 358 (BOT 358) - Credits: 18.00

Phytomedicine 365 (BOT 365) - Credits: 18.00

Plant diversity 366 (BOT 366) - Credits: 18.00

The South African tourism product 310 (EFK 310) - Credits: 30.00

Current discourses in tourism 320 (EFK 320) - Credits: 30.00

Spatial analysis 320 (GIS 320) - Credits: 22.00

Soil chemistry 320 (GKD 320) - Credits: 14.00

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

Remote sensing 320 (GMA 320) - Credits: 22.00

Geometrical and space geodesy 310 (GMC 310) - Credits: 22.00

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.