

BSc Geography and Environmental Science

- [University of Pretoria](#)
- [Study at UP](#)
- BSc Geography and Environmental Science

Geography serves as a bridging science and links the human sciences with the natural sciences. Geography is also a spatial science that studies the location and distribution of cities and human activities, such as agriculture and tourism, as well as the processes, patterns, problems and potential solutions associated with these activities. Furthermore, geography is a planning and management science that aims to improve the quality of life of all people. Environmental science incorporates the study of the physical, chemical and biological processes that take place on the earth, as well as the social, political and cultural processes that affect the planet. The critical problems facing us, such as climate change and changes in biodiversity/ecosystems, require an integrated approach. Students should strive to understand the complex relationships between humans and the environment by drawing on a diverse range of disciplines.

Geographers and environmental scientists study processes, relationships and interdependence in the natural environment, and how humans impact them. Most careers in this field focus on managing, monitoring and understanding the environment, as well as on environmental planning. Hence, a practitioner must be in a position to provide scientific or technical guidance, communicate scientific or technical information to the public and provide advice on proper standards and regulations.

The BSc (Geography and Environmental Sciences) programme comprises fundamental modules that develop general skills. Training in spatial analytical techniques include GIS and remote sensing, and enable graduates to analyse complex environmental issues. Students can also select modules from other disciplines.

Environmental Sciences is a study of the multitude of interaction between the living (including humans) and non-living components of the earth. As a result of an increase in the human population and technological advances, our impressions of the environment have become more widespread and create complex, multidisciplinary challenges, for example the impact on ecosystems, natural resources, human health and well-being.

For more information, please consult the Faculty webpage.

- **Disclaimer:** *This publication contains information about regulations and programmes of the University of Pretoria. Amendments to or updating of the information may be effected from time to time without prior notification. The accuracy, correctness or validity of the information contained here is therefore not guaranteed by the University at any given time and is always subject to verification. The user is kindly requested to verify the correctness of the information with the University at all*

times. Failure to do so will not give rise to any claim or action of any nature against the University by any party whatsoever.

Career Opportunities

Geography and environmental sciences offer a range of career paths, including teaching, research (for a variety of bodies) and the application of geographical knowledge and skills in practice. Graduates can focus on environmental management; urban issues such as informal settlements; regional and rural development; and environmental health or environmental issues, including pollution, climate change and the understanding and addressing of negative impacts on biodiversity/ ecosystem services through activities such as mining, agriculture and tourism.

Environmental specialists act as consultants in the fields of environmental analysis and management, environmental law, environmental standards, environmental management systems and environmental auditing. They are needed by, among others, professionals in private sector institutions involved with environmental issues, for example, transport and civil engineers, town and regional planners and landscape architects.

In the private sector, graduates are generally employed by real estate, planning, architectural and engineering firms, and by banks, tourism organisations, environmental conservation bodies and industry. Government departments such as the Departments of Environment, Forestry and Fisheries (DEFF), Agriculture, Land Reform and Rural Development (DALRRD), Water and Sanitation (DWS), Tourism (DT), Basic Education (DBE) and Higher Education and Training (DHET), and Statistics South Africa (Stats SA) also employ these graduates, as do parastatal organisations such as the South African Bureau of Standards (SABS), the South African Biodiversity Institute (SANBI) and the Council for Scientific and Industrial Research (CSIR). Many graduates are also self-employed, working mainly in areas such as marketing, planning, development, tourism, cartography, remote sensing, environmental analysis, social impact assessments and environmental auditing.

Programme Code

02133363

Closing Dates

Applications for this plan have closed.

Admission Requirements

Important information for all prospective students for 2022

- The admission requirements apply to students who apply for admission to the University of Pretoria with a **National Senior Certificate (NSC) and Independent Examination Board (IEB) qualifications**.
- **Applicants with qualifications other than the abovementioned** should refer to:
 - **Brochure:** Undergraduate Programme Information 2022: Qualifications other than the NSC and IEB, available at [click here](#).
- **Citizens from countries other than South Africa (applicants who are not South African citizens)** should also refer to:
 - **Brochure:** Newcomer's Guide 2021, available at [click here](#).
 - **Website:** [click here](#).
- **School of Tomorrow (SOT), Accelerated Christian Education (ACE) and General Education Development Test (GED):** The University of Pretoria no longer accepts qualifications awarded by these institutions.
- **National Certificate (Vocational) (NCV) Level 4:** The University of Pretoria may consider NCV candidates, provided they meet the exemption for bachelor's status criteria and the programme requirements.

Transferring students

A transferring student is a student who, at the time of application for a degree programme at the University of Pretoria (UP) –

- is a registered student at another tertiary institution, **or** was previously registered at another tertiary institution and did not complete the programme enrolled for at that institution, and is not currently enrolled at a tertiary institution, **or** has completed studies at another tertiary institution, but is not currently enrolled at a tertiary institution, **or** has started with tertiary studies at UP, then moved to another tertiary institution and wants to be readmitted at UP.

A transferring student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** having completed a higher certificate at a tertiary institution with faculty-specific subjects/modules passed (equal to or more than 50%), as well as complying with faculty rules on admission;
- previous academic performance (must have passed all modules registered for up to the closing date of application) or as per faculty regulation/promotion requirements;

- a certificate of good conduct.

Note: Students who have been dismissed at the previous institution due to poor academic performance, will not be considered for admission to UP.

Returning students

A returning student is a student who, at the time of application for a degree programme –

- is a registered student at UP, and wants to transfer to another degree at UP, **or** was previously registered at UP and did not complete the programme enrolled for, and did not enrol at another tertiary institution in the meantime (including students who applied for leave of absence), **or** has completed studies at UP, but is not currently enrolled or was not enrolled at another tertiary institution after graduation.

A returning student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** previous academic performance (should have a cumulative weighted average of at least 50% for the programme enrolled for);
- having applied for and was granted leave of absence.

Note: Students who have been excluded/dismissed from a faculty due to poor academic performance may be considered for admission to another programme at UP. The Admissions Committee may consider such students if they were not dismissed more than twice. Only ONE transfer between UP faculties will be allowed, and a maximum of two (2) transfers within a faculty.

Important faculty-specific information on undergraduate programmes for 2022

- 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 have a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) 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 when calculating the Admission Point Score (APS).
- Grade 11 results are used for the conditional admission of prospective students. Final admission is based on the final NSC/IEB results.



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

Minimum requirements

Achievement level

English Home

Language or

English First

Additional

Language

NSC/IEB

5

Mathematics

NSC/IEB

5

Physical Sciences

NSC/IEB

5

APS

34

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, which requires an additional year of study.

BSc - Extended Programme - Physical Sciences

Minimum requirements

Achievement level

English Home

Language or

English First

Additional

Language

NSC/IEB

4

Mathematics

NSC/IEB

4

Physical Sciences

NSC/IEB

4

APS

28

Note:

*The BSc – Extended programmes are not available for students who meet all the requirements for the corresponding mainstream programme.

*Please note that only students who apply in their final NSC or equivalent qualification year will be considered for admission into any of the BSc – Extended programmes.

Duration of study

3 years, full-time.

Faculty Notes

The Faculty of Natural and Agricultural Sciences is home to more than 6 500 undergraduate and postgraduate students. The Faculty presents degrees in fields ranging from the proverbial A to Z – from actuaries to zoologists, and consists of 13 departments.

All degree programmes are designed to develop problem-solving individuals who can easily adapt to changing circumstances and take the lead in their chosen fields of specialisation. The qualifications awarded are of world-class and provide access to a multitude of career opportunities for dynamic and creative people. According to the latest Times Higher Education World University Rankings the University has achieved new world rankings in Physical Sciences, a discipline which features strongly in NAS and also maintains excellent positions on the ISI Web of Science (WOS) field rankings in Plant and Animal Sciences, Agricultural Sciences, and Environment and Ecology Sciences.

In the Faculty of Natural and Agricultural Sciences, we strive to continuously improve our high impact research and significantly address the national shortage of PhD graduates that respond to global and local challenges.

Enquiries about the programme

[Click Here](#)



How to apply



Online Application



Note: Also consult General Rules and Information on the Yearbook website for additional information.

Disclaimer: Due to the continuous restructuring of the Faculty and this website, some of the information displayed here may not fully reflect the most recent developments in the Faculty. Any discrepancies that are experienced may be taken up with Student Administration of the Faculty.