



Make today matter



Geology is the study of the Earth and includes aspects related to its formation, composition, structure and processes. South Africa is known for its large reserves of gold, platinum, chromium, vanadium and other metal ores, as well as substantial diamond and coal reserves. A mere hour's drive from UP takes one to the Karoo coalfields, the site where the Cullinan diamond was discovered, the Bushveld platinum mines and the gold mines of the Witwatersrand. South Africa also has some of the Earth's oldest well-exposed geology and significant fossils informing us about the history of the planet.

Who is the ideal candidate?

The programme requires an appreciation for mathematics and chemistry. A love for the Earth and working outdoors, and an interest in geology or geomorphology will be beneficial. Depending on your personality, you can decide how you would like to divide your time between working in the field and working in the office.



What makes this programme unique?

UP is well situated within easy reach of the mining and applied geological industries and offers a strong programme in the applied fields of economic geology, structural geology and mechanics, and engineering geology and hydrogeology. Candidates who successfully complete this programme qualify for professional registration as geological scientists.



Career opportunities

Geology is split into many subdisciplines which include mineralogy (the study of rock-forming minerals), petrology (the study of rock formation), structural geology (the deformation and behaviour of rock under stress) and economic or mining geology (identification of mineral resources and contribution to the day-to-day operations of mines).

As a geologist, you can choose whether you would prefer to work in a mine or laboratory, or as an exploration geologist in the field. The programme also allows entry into applied geological professions such as hydrogeology and engineering geology.

Apart from working in the mining industry, candidates also find employment at analytical facilities, in forensics, or in the insurance industry.

Which companies employ our graduates?

Our graduates are employed as economic or exploration geologists in the mining industry, or work for parastatals (Council for Geoscience, CSIR, Mintek) or government (Mineral Resources; Energy).



Minimum admission requirements

| Programme | Minimum requirements for NSC/IEB for 2025 | | | |
|--|--|-------------|-------------------|-----|
| | Achievement level | | | APS |
| | English Home Language or English First Additional Language | Mathematics | Physical Sciences | |
| Bachelor of Science <i>Geology</i> [3 years] | 5 | 5 | 5 | 34 |



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Faculty of Natural and Agricultural Sciences

Fakulteit Natuur- en Landbouwetenskappe
Lefapha la Disaense tša Tlhago le Temo

Minimum requirements for
applicants with a school
leaving certificate not issued
by Umalusi (South Africa)



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Refer to the International undergraduate prospectus at www.up.ac.za/programmes > Undergraduate > Admission Information or [click here](#) for more information.

- The closing date for applications for programmes in this faculty is 30 June.
- Meeting the minimum admission requirements does not guarantee admission into a programme.

| FACULTY OF NATURAL AND AGRICULTURAL SCIENCES Programmes | Minimum requirements for 2025 | | | | | | | | | |
|---|--|--|--|----------------|--------------------------|--|-------|-------|--------------|------|
| | Achievement level | | | | | | | | | |
| | Compulsory subjects | GCSE # | | HIGCSE NSSC HL | AS Level | A Level | IB | | KOMBI ABITUR | KCSE |
| | | The qualifications in the two columns below will be considered only for conditional admission. If final AS and/or A levels have been completed, these two columns will not apply. It can also not be used for final admission and/or registration. | | | | | | | | |
| | | CIE IGCSE LGCSE BGCSE SGCSE O Level NSSC OL CGCE UCE NECO WAEC ZIMSEC | UK England Wales Northern Ireland | | GCE CIE NSSC AS | GCE CIE CGCE UACE WAEC ZIMSEC | IB SL | IB HL | | |
| Bachelor of Science <i>Biochemistry</i> | English Mathematics Physics Chemistry | | | | | | | | | |
| Bachelor of Science <i>Biotechnology</i> | | | | | | | | | | |
| Bachelor of Science <i>Ecology</i> | | | | | | | | | | |
| Bachelor of Science <i>Zoology</i> | | | | | | | | | | |
| Bachelor of Science <i>Entomology</i> | | | | | | | | | | |
| Bachelor of Science <i>Genetics</i> | | | | | | | | | | |
| Bachelor of Science <i>Human Genetics</i> | | | | | | | | | | |
| Bachelor of Science <i>Human Physiology</i> | | | | | | | | | | |
| Bachelor of Science <i>Human Physiology, Genetics and Psychology</i> | | | | | | | | | | |
| Bachelor of Science <i>Medical Sciences</i> | | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science <i>Microbiology</i> | | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science <i>Plant Science</i> | | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science <i>Chemistry</i> | | | | | | | | | | |
| Bachelor of Science <i>Physics</i> | | | | | | | | | | |
| Bachelor of Science <i>Geography</i> [Option: Geography and Environmental Science] | | | | | | | | | | |
| Bachelor of Science <i>Geoinformatics</i> | | | | | | | | | | |
| Bachelor of Science <i>Geology</i> | | | | | | | | | | |
| Bachelor of Science <i>Meteorology</i> | | | | | | | | | | |
| Bachelor of Science <i>Environmental and Engineering Geology</i> | | | | | | | | | | |

Only English with at least a C symbol on this level can be used for final admission.

NOTE: The Faculty of Natural and Agricultural Sciences requires the following achievement levels for IELTS and TOEFL: TOEFL – Writing=22; Speaking=23; Reading=21; Listening=17
IELTS – Writing=6; Speaking=6; Reading=6; Listening=6



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| FACULTY OF NATURAL AND AGRICULTURAL SCIENCES Programmes | Minimum requirements for 2025 | | | | | | | | | |
|--|--|---|--------|----------------|-----------------|-------------------------------|--------|--------|-------------------|--------|
| | Achievement level | | | | | | | | | |
| | Compulsory subjects | GCSE # | | HIGCSE NSSC HL | AS Level | A Level | IB | | KOMBI ABITUR | KCSE |
| | | The qualifications in the two columns below will be considered only for conditional admission. If final AS and/or A levels have been completed, these two columns will not apply. It can also not be used for final admission and/or registration. | | | GCE CIE NSSC AS | GCE CIE CGCE UACE WAEC ZIMSEC | IB SL | IB HL | | |
| | | CIE | UK | | | | | | | |
| IGCSE LGCSE BGCSE SGCSE | England Wales Northern Ireland | | | | | | | | | |
| O Level NSSC OL CGCE UCE NECO WAEC ZIMSEC | | | | | | | | | | |
| Bachelor of Science <i>Food Science</i> | English Mathematics Physics Chemistry | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science in Food Management [Option: Culinary Science] | | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science in Food Management [Option: Nutrition] | | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science in Agriculture in Agricultural Economics and Agribusiness Management | | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science in Agriculture in Animal Science | | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science in Agriculture in Plant Pathology | | | | | | | | | | |
| Bachelor of Science in Agriculture in Applied Plant and Soil Sciences | | | | | | | | | | |
| Bachelor of Science <i>Actuarial and Financial Mathematics</i> | English Mathematics | C A | 4 7 | 3 1 | C A | E C | 4 6 | 3 5 | 60-69% 80-100% | B A |
| Bachelor of Science <i>Mathematics</i> | English Mathematics | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Science <i>Applied Mathematics</i> | | B | 5 | 2 | B | D | 5 | 4 | 70-79% | B+ |
| Bachelor of Science <i>Mathematical Statistics</i> | | | | | | | | | | |
| Bachelor of Consumer Science <i>Clothing Retail Management</i> | English Mathematics | C | 4 | 3 | C | E | 4 | 3 | 60-69% | B |
| Bachelor of Consumer Science <i>Food Retail Management</i> | | D | 3 | 3 | D | E | 2 | 2 | 50-59% | C+ |
| Bachelor of Consumer Science <i>Hospitality Management</i> | | | | | | | | | | |

Only English with at least a C symbol on this level can be used for final admission.

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IELTS – Writing=6; Speaking=6; Reading=6; Listening=6

