



Make today matter



The Bachelor of Science in Geoinformatics programme entails the collection, storage, analysis, visualisation and management of geospatial information by using an assortment of geospatial analytical methods and tools to help with decision making and providing solutions to geographic problems. Our graduates have a passion for geography, an interest in collecting, processing, displaying and analysing geographic information, and deriving, geospatial data products, and an interest in using computing technology and quantitative techniques to address geographical problems.



### What makes this programme unique?

The programme is accredited by the South African Geomatics Council for registration as candidate Geomatics Technologists in GISc (GTg, GISc).



### Career opportunities

Web programmer, geospatial data officer, geospatial software developer, mobile app developer, geovisualisation specialist, GIS project manager, GISc consulting, map designer, spatial data analyst, earth observation data analyst and systems analyst.



### Which companies employ our graduates?

Graduates with a Bachelor of Science in Geoinformatics readily find work at organisations such as:

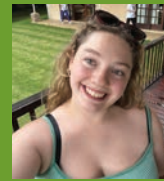
- The Environmental Systems Research Institute (ESRI) South Africa;
- Intergraph Systems Southern Africa;
- The Council for Scientific and Industrial Research (CSIR);
- The Agricultural Research Council (ARC);
- AfriGIS; GeoTerra Image; GISCOE; Aurecon;
- The South African National Space Agency (SANSA);
- South Africa's national mapping organisation (National Geospatial Information (NGI);
- Any municipality in the country;
- Many government departments (eg Environmental Affairs, Forestry and Fisheries (DEFF); Science and Innovation (DSI); Statistics South Africa; and the Department of Agriculture, Land Reform and Rural Development (DALRRD); and Water and Sanitation (DWS).



'My decision to pursue Geoinformatics at the University of Pretoria was sparked by the realisation of GIS's limitless potential to solve real-world problems. I was particularly struck by its widespread applications during the COVID-19 pandemic in my first year of studies, when GIS became instrumental

in tracking the virus's spread, identifying high-risk areas, and optimising resource allocation. The ability to integrate spatial data with other disciplines – such as healthcare, urban planning, and environmental management – truly fascinated me. UP's programme not only deepened my understanding of GIS's technical aspects but also fostered my passion for its transformative potential across diverse industries. I am confident that my education at UP has equipped me to make a meaningful impact in this exciting and rapidly evolving field.'

**Sonet Vermaak** – Bachelor of Science in Geoinformatics



'I study Geoinformatics as it is something that I feel is relevant to our current world and can be used in many applications. It has capacities beyond our imaginations, and I have really enjoyed studying something so unique yet also so applicable in every domain. I've enjoyed learning many different skills and being exposed to various areas and fields such as programming, legislation, business, and, of course, spatial applications. I've really enjoyed what the degree has given me so far and I can't wait to see what the future holds for GIS and where it will take me next. I highly recommend Geoinformatics to anyone interested in understanding and aiding the world around us. If you are keen to study something very dynamic and impactful, then this degree is for you.'

**Scout Yatt** – Bachelor of Science in Geoinformatics



'I chose this degree as I love the outdoors and the natural environment. I find it really fascinating to learn how mankind and society interact with one another, as well as how they interact with and influence the natural environment around them.

Upon discovering this degree and reading through its yearbook, I knew that this was definitely the one for me. The intelligently designed outline of the course allowed me to choose a major I knew I would enjoy (Geoinformatics). It also allowed me to develop useful interdisciplinary skills that I know will be extremely useful in the working world and when applying for jobs.'

**Kyle Theron** – Bachelor of Science in Geoinformatics

### Minimum admission requirements

Programme	Minimum requirements for NSC/IEB for 2026			
	Achievement level			APS
	English Home Language or English First Additional Language	Mathematics	Physical Sciences	
<b>Bachelor of Science in Geoinformatics</b> [3 years]	5	5	5	34



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Refer to the International undergraduate prospectus at [www.up.ac.za/programmes](http://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 2026									
	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 ZGCE	IB SL	IB HL		
		CIE	UK							
IGCSE LGCSE BGCSE EGCSE  O Level NSSC OL CGCE UCE NECO WAEC WASSCE ZGCE		England Wales Northern Ireland Pearson Edexcel GCSE								
Bachelor of Science in Biochemistry	English Mathematics Physics Chemistry									
Bachelor of Science in Biotechnology										
Bachelor of Science in Ecology										
Bachelor of Science in Zoology										
Bachelor of Science in Entomology										
Bachelor of Science in Genetics										
Bachelor of Science in Human Genetics										
Bachelor of Science in Human Physiology										
Bachelor of Science in Human Physiology, Genetics and Psychology										
Bachelor of Science in Medical Sciences		C	4	3	C	E	4	3	60-69%	B
Bachelor of Science in Microbiology		C	4	3	C	E	4	3	60-69%	B
Bachelor of Science in Plant Science		C	4	3	C	E	4	3	60-69%	B
Bachelor of Science in Chemistry										
Bachelor of Science in Physics										
Bachelor of Science in Geography [Option: Geography and Environmental Science]										
Bachelor of Science in Geoinformatics										
Bachelor of Science in Geology										
Bachelor of Science in Meteorology										
Bachelor of Science in Environmental and Engineering Geology										

# 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

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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Bachelor of Science in Food Science	English Mathematics Physics Chemistry									
Bachelor of Science in Food Management [Option: Culinary Science]										
Bachelor of Science in Food Management [Option: Nutritional Science]										
Bachelor of Science in Agriculture in Agricultural Economics in Agribusiness Management		C C C C	4 4 4 4	3 3 3 3	C C C C	E E E E	4 4 4 4	3 3 3 3	60-69% 60-69% 60-69% 60-69%	B B B B
Bachelor of Science in Agriculture in Animal Science										
Bachelor of Science in Agriculture in Plant Pathology										
Bachelor of Science in Agriculture in Applied Plant and Soil Sciences										
Bachelor of Science in Actuarial and Financial Mathematics	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 in Mathematics	English Mathematics									
Bachelor of Science in Applied Mathematics		C B	4 5	3 2	C B	E D	4 5	3 4	60-69% 70-79%	B B+
Bachelor of Science in Mathematical Statistics										
Bachelor of Consumer Science specialising in Clothing and Retail Management	English Mathematics	C D	4 3	3 3	C D	E E	4 2	3 2	60-69% 50-59%	B C+
Bachelor of Consumer Science specialising in Food Management										

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Bachelor of Science in Mathematics [4-year programme]	English Mathematics	D C	3 4	3 3	D C	E E	2 4	2 3	58% 65%	B- B
Bachelor of Science in Chemistry [4-year programme]	English Mathematics Physics Chemistry	D D D D	3 3 3 3	3 3 3 3	D D D D	E E E E	2 2 2 2	2 2 2 2	58% 58% 58% 58%	B- B- B- B-
Bachelor of Science in Geoinformatics [4-year programme]										
Bachelor of Science in Geology [4-year programme]										
Bachelor of Science in Meteorology [4-year programme]										
Bachelor of Science in Physics [4-year programme]										
Bachelor of Science in Ecology [4-year programme]										
Bachelor of Science in Human Physiology [4-year programme]										
Bachelor of Science in Agriculture in Applied Plant and Soil Sciences [5-year programme]										
Bachelor of Science in Agriculture in Plant Pathology [5-year programme]										

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