Faculty of Natural and Agricultural Sciences

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

UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Make today matter

Bachelor of Science
Mathematical Statistics

Statistics is the science of extracting information from a variety of data sources utilising cutting-edge technologies that enable companies and institutions to remain abreast and to be globally competitive. Statistics and data science form the foundation on which so much future development takes place. Superb opportunities exist for students who are keen to distinguish themselves in this field. You will not only enjoy an extraordinary and rewarding career, you will also receive an above-average remuneration package.

Who is the ideal candidate?

An ideal candidate for this programme is someone with:
- strong numerical skills;
- interest in computers and computer programming;
- logical reasoning ability and critical thinking skills; and
- strong problem-solving skills.

What makes this programme unique?

The Statistics programme can uniquely combine students' interest in mathematical statistics with their interest in, for example, insurance science, economics, mathematics and applied mathematics.

By completing this programme you will therefore be positioned at the forefront of analytical thinking and application in the statistical, computational and interdisciplinary environments of the future.

Which companies employ our graduates?

- Commerce companies (especially online shopping, customer analytics and recommender systems)
- Financial and banking companies
- Health companies
- Information technology companies
- Insurance and accounting companies
- Logistics and transport companies
- Pharmaceutical industries
- Research and development organisations
- Telecommunication companies
- Universities and other education bodies

Career opportunities

- Artificial intelligence scientist
- Bio-statistician
- Business analyst
- Consultant in banking and finance
- Data analyst
- Data scientist
- Environmental scientist
- Forensic investigator
- Financial risk analyst
- Geospatial information scientist
- Investment analyst
- Market researcher
- Statistical software engineer
- Quality analyst

Minimum admission requirements

Programme	Minimum requirements for NSC/IEB for 2025		
	Achievement level		APS
	English Home Language or English First Additional Language	Mathematics	
Bachelor of Science *Mathematical Statistics* [3 years]	5	6	34

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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	Compulsory subjects	GCSE # 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.		HIGCSE NSSC HL	AS Level	A Level	IB		KOMBI ABITUR	KCSE
		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 *Biochemistry*										
Bachelor of Science *Biotechnology*										
Bachelor of Science *Ecology*										
Bachelor of Science *Zoology*										
Bachelor of Science *Entomology*										
Bachelor of Science *Genetics*										
Bachelor of Science *Human Genetics*										
Bachelor of Science *Human Physiology*										
Bachelor of Science *Human Physiology, Genetics and Psychology*										
Bachelor of Science *Medical Sciences*	English	C	4	3	C	E	4	3	60-69%	B
Bachelor of Science *Microbiology*	Mathematics	C	4	3	C	E	4	3	60-69%	B
Bachelor of Science *Plant Science*	Physics	C	4	3	C	E	4	3	60-69%	B
Bachelor of Science *Chemistry*	Chemistry	C	4	3	C	E	4	3	60-69%	B
Bachelor of Science *Physics*										
Bachelor of Science *Geography* [Option: Geography and Environmental Science]										
Bachelor of Science *Geoinformatics*										
Bachelor of Science *Geology*										
Bachelor of Science *Meteorology*										
Bachelor of Science *Environmental and Engineering Geology*										

Minimum requirements for 2025 — Achievement level

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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		CIE — IGCSE LGCSE BGCSE SGCSE; O Level NSSC OL CGCE UCE NECO WAEC ZIMSEC	UK — England Wales Northern Ireland							
Bachelor of Science *Food Science*	English Mathematics Physics Chemistry	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 Food Management [Option: Culinary Science]										
Bachelor of Science in Food Management [Option: Nutrition]										
Bachelor of Science in Agriculture in Agricultural Economics and Agribusiness Management										
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 *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 *Mathematics*	English Mathematics	C B	4 5	3 2	C B	E D	4 5	3 4	60-69% 70-79%	B B+
Bachelor of Science *Applied Mathematics*										
Bachelor of Science *Mathematical Statistics*										
Bachelor of Consumer Science *Clothing 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 *Food Retail Management*										
Bachelor of Consumer Science *Hospitality Management*										

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