



### Make today matter

Although plants are amazing organisms, we actually know very little about their potential uses. It is, however, well known that plants are the best factories for synthesising valuable natural products.

A degree in plant sciences is a three-year degree that broadly covers all relevant aspects of plant sciences. Further studies allow students to specialise in medicinal plant science, plant biotechnology or ecology and biodiversity.

In medicinal plant sciences, students learn about the discovery and use of plant medicines and phytotherapeutically important molecules obtained from plants. Students studying Plant Biotechnology learn about molecular tools and the use of model plants to study plant physiology. In the study of plant diversity and ecology, students learn about South Africa's rich and diverse vegetation and its origin, and how to facilitate conservation and management strategies for future generations.

### Who is the ideal candidate?

The ideal candidate is someone who is inquisitive, has a broad interest in plants and the environment, conservation and in improving wellness and quality of life.



### What makes this programme unique?

The Department is dynamic, innovative, modern and relevant. Staff members undertake world-class research and 70% have received NRF ratings.

Much of the research (including soil science) is of an applied nature and contributes to the improvement of agricultural crops and methods, knowledge of plant diseases, the use of plant-derived compounds, biodiversity (including evolutionary systematics and ecology) and plant biotechnology.



### Which companies employ our graduates?

Our graduates are employed at:

- Medical Research Council (MRC)
- The Council for Scientific and Industrial Research (CSIR)
- The South African National Biodiversity Institute (SANBI)
- Pharmaceutical industries
- Tertiary institutions
- Government departments



### Career opportunities



Academic/  
teacher

Agricultural  
specialist

Climate change  
biologist

Conservationist

Ecological  
consultant

Pharmaceutical  
researcher

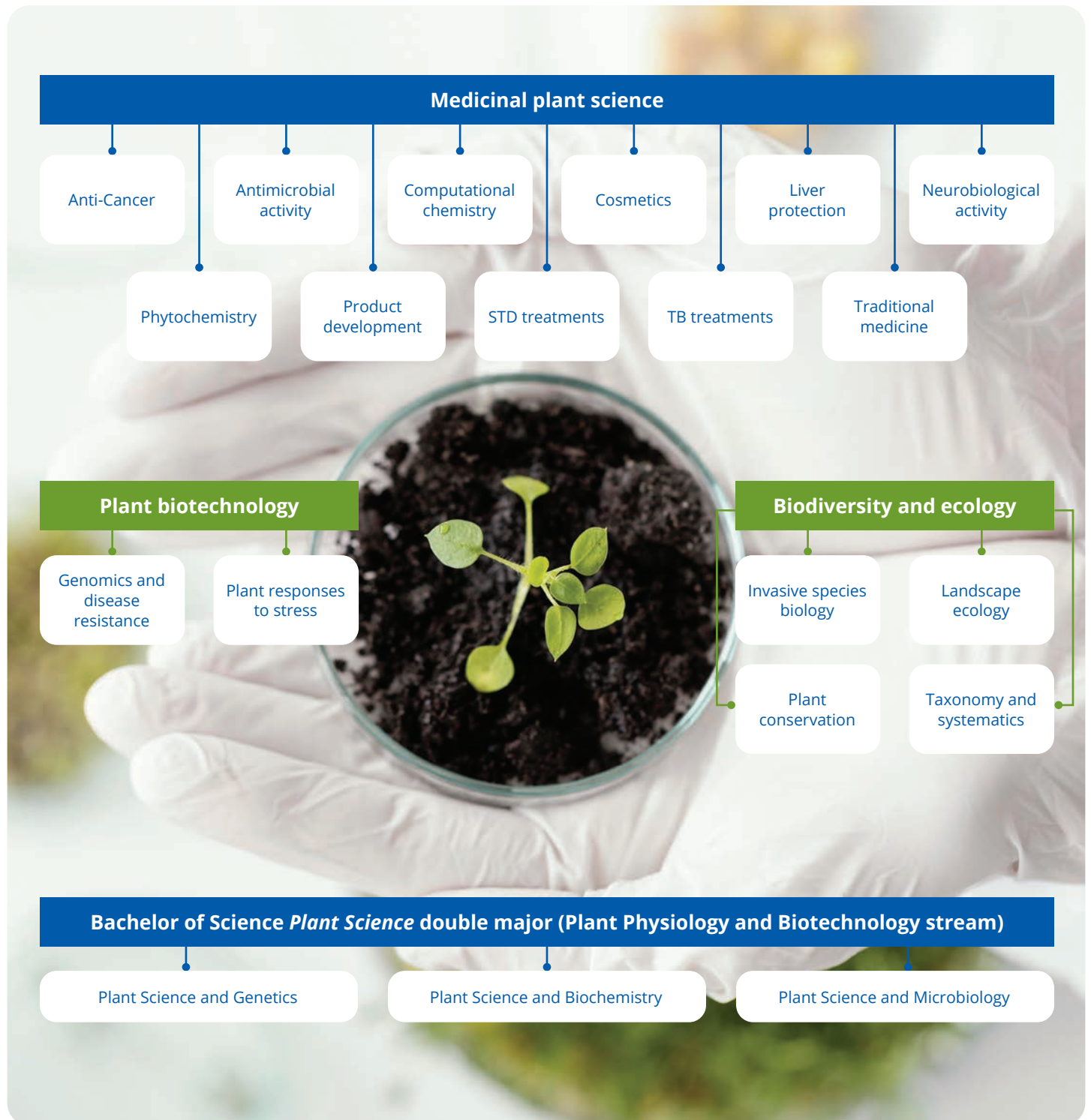
Plant  
biotechnologist

Plant systematist





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### 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	
<b>Bachelor of Science <i>Plant Science</i></b> [3 years]	5	5	5	32





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](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 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	UK		GCE CIE NSSC AS	GCE CIE CGCE UACE WAEC ZIMSEC	IB SL	IB HL		
		IGCSE LGCSE BGCSE SGCSE	England Wales Northern Ireland							
		O Level NSSC OL CGCE UCE NECO WAEC ZIMSEC								
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
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		CIE	UK							
IGCSE LGCSE BGCSE SGCSE  O Level NSSC OL CGCE UCE NECO WAEC ZIMSEC		England Wales Northern Ireland								
Bachelor of Science <i>Food Science</i>	English Mathematics Physics Chemistry									
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		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		C	4	3	C	E	4	3	60-69%	B
Bachelor of Science in Agriculture in Applied Plant and Soil Sciences		C	4	3	C	E	4	3	60-69%	B
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									
Bachelor of Science <i>Applied Mathematics</i>		C	4	3	C	E	4	3	60-69%	B
Bachelor of Science <i>Mathematical Statistics</i>		B	5	2	B	D	5	4	70-79%	B+
Bachelor of Consumer Science <i>Clothing Retail Management</i>	English Mathematics									
Bachelor of Consumer Science <i>Food Retail Management</i>		C D	4 3	3 3	C D	E E	4 2	3 2	60-69% 50-59%	B C+
Bachelor of Consumer Science <i>Hospitality Management</i>										

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

