

Faculty of Natural and Agricultural Sciences

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

Bachelor of Science in Human Physiology



Make today matter

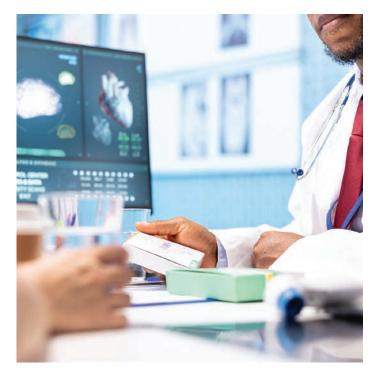
During the first year of study for this degree, students are exposed to a generic range of subjects from the biological and agricultural sciences. In the second year they study physiological systems, (which include the neurophysiological, haematological, cardiovascular, pulmonary, renal, nutritional and digestive, endocrinological and reproductive systems), with biochemistry as a compulsory subject.

The study programme for the third and final year includes a selection of integrated physiology modules, such as exercise and nutrition physiology, cellular and developmental physiology, applied pathophysiology, higher neurological function and industrial physiology. At the third-year level, students have an opportunity to select elective modules in the programme. The Bachelor of Science in Human Physiology programme will appeal to scientifically minded students who are inquisitive by nature.



What makes this programme unique?

Physiologists study how the body functions, starting at the molecular and cellular levels and progressing through tissues, organs, and systems to the integrated control of body functions. This foundational knowledge is applied in research to explore both normal and abnormal life processes.



I decided to study Bachelor of Science in Human Physiology as I was highly intrigued about how the human body functioned, on a molecular and cellular level. The opportunity to study the degree had exposed me to a great number of experts in physiology and led me to have a greater understanding in the process associated with mundane

things such as thinking, breathing and digestion. The road of studying the degree has let me pursue my passion in research. I am currently studying a MSc in the neuro track of physiology and I am highly interested in how ultrasound can be used as a tool in a neuro-surgical setting. My dream is to obtain my PhD and pursue health research further that will one day benefit the neurophysiology and neurosurgical field, which will hopefully lead to a greater understanding of the human brain.'

Muhammad J Bassa – Bachelor of Science in Human Physiology



Career opportunities

Research is undertaken in cooperation with medical teams in private and government research laboratories at, for example, the Council for Scientific and Industrial Research (CSIR), the Medical Research Council (MRC), the South African Bureau of Standards (SABS), pharmaceutical firms, universities, veterinary and industrial institutions, state departments (for example the Department of Health) and health firms. Physiologists also make contributions in the fields of education (as teachers, lecturers and instructors), sports physiology, bioengineering, industrial hygiene, journalism, medical technology and, in the industry, as representatives of pharmaceutical firms.



Which companies employ our graduates?

Our graduates are employed by:

- Academia
- State departments (eg the Department of Health)
- Medical and pharmaceutical companies
- Private and government research laboratories (CSIR, MRC, NHLS, ARC, NRF, SANBI and NICD)
- Computational biology and bioinformatics companies
- Biomedical science communication companies
- Corporate and sales businesses
- Wellness companies

Minimum admission requirements

	Minimum requirements for NSC/IEB for 2026							
	Achievement level							
Programme	English Home Language or English First Additional Language	Mathematics	Physical Sciences	APS				
Bachelor of Science in Human Physiology [3 years]	5	5	5	32				



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





Refer to the International undergraduate prospectus at www.up.ac.za/programmes > Undergraduate > Admission Information or <u>click here</u> 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.

	Minimum requirements for 2026									
	Achievement level									
	GCSE #				AS Level	A Level	IB			
		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.								
FACULTY OF NATURAL AND AGRICULTURAL SCIENCES	Compulsory subjects	CIE	UK	HIGCSE NSSC HL	GCE CIE	GCE CIE	IB SL	IB HL	KOMBI ABITUR	KCSE
Programmes		IGCSE LGCSE BGCSE EGCSE O Level NSSC OL CGCE UCE NECO WAEC WASSCE ZGCE	England Wales Northern Ireland Pearson Edexcel GCSE		NSSC AS	CGCE UACE WAEC ZGCE				
Bachelor of Science in Biochemistry					C	E				
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	English	С		3			4 4		60-69%	В
Bachelor of Science in Medical Sciences	Mathematics	C	4 4					3 3	60-69%	В
Bachelor of Science in Microbiology	Physics	С	4	3	C	E	4	3	60-69%	В
Bachelor of Science in Plant Science	Chemistry	С	4	3	С	E	4	3	60-69%	В
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										

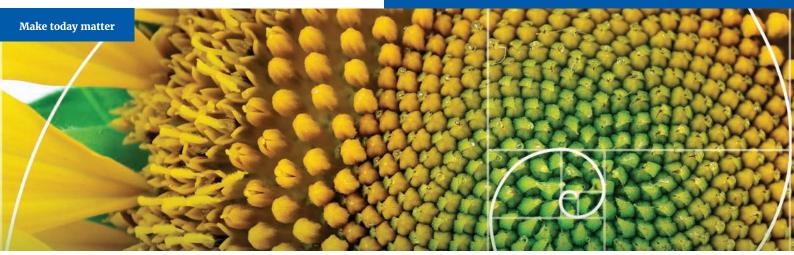


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FACULTY OF NATURAL AND AGRICULTURAL SCIENCES		CIE	IGCSE England LGCSE Wales BGCSE Northern EGCSE Ireland Pearson D Level Edexcel ISSC OL GCSE UCE UCE NECO WAEC	HIGCSE NSSC HL	GCE CIE NSSC AS	GCE CIE CGCE UACE WAEC ZGCE	IB SL	IB HL	KOMBI ABITUR	KCSE	
Programmes		LGCSE BGCSE EGCSE O Level NSSC OL CGCE									
Bachelor of Science in Food Science											
Bachelor of Science in Food Management [Option: Culinary Science]											
Bachelor of Science in Food Management [Option: Nutritional Science]	English Mathematics Physics										
Bachelor of Science in Agriculture in Agricultural Economics in Agribusiness Management		C C C	4 4 4 4	3 3 3	C C C	E E E	4 4 4 4	3 3 3 3	60-69% 60-69% 60-69% 60-69%	B B B	
Bachelor of Science in Agriculture in Animal Science	Chemistry										
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											
Bachelor of Science in Applied Mathematics	English Mathematics	C B	4 5	3 2	C B	E D	4 5	3	60-69% 70-79%	B B+	
Bachelor of Science in Mathematical Statistics	iviaciieiliatics		3				J	4	70-7970	Бт	
Bachelor of Consumer Science specialising in Clothing and Retail Management Bachelor of Consumer Science	English Mathematics	C D	4 3	3	C D	E E	4 2	3 2	60-69% 50-59%	B C+	
specialising in Food Management											

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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Programmes		LGCSE BGCSE EGCSE O Level NSSC OL CGCE UCE NECO WAEC WASSCE ZGCE	England Wales Northern Ireland Pearson Edexcel GCSE		AS	UACE WAEC ZGCE				
Bachelor of Science in Mathematics [4-year programme]	English Mathematics	D C	3 4	3 3	0 0	E E	2 4	2 3	58% 65%	B- B
Bachelor of Science in Chemistry [4-year programme]										
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]	English Mathematics Physics Chemistry	D D D	3 3 3 3	3 3 3 3	D D D	E E E	2 2 2 2	2 2 2 2	58% 58% 58% 58%	B- B-
Bachelor of Science in Ecology [4-year programme]										B- B-
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]										

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

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