

## Faculty of Economic and Management Sciences Fakulteit Ekonomiese en Bestuurswetenskappe

Fakulteit Ekonomiese en Bestuurswetenskapp Lefapha la Disaense tša Ekonomi le Taolo

# Bachelor of Commerce specialising in Statistics and Data Science



#### Make today matter



### What does the programme entail?

The three-year Bachelor of Commerce specialising in Statistics and Data Science degree programme trains students in the science of extracting information from data. This qualification equips statisticians for employment in data science environments and increases the scope of possible jobs they could consider in practically any industry. It lays the foundation for scientifically accountable conclusions, planning and estimation.



# Who are the ideal candidates?

Characteristics of students who excel in this programme:

- Strong numerical skills
- Interest in computers and computer programming
- Logical reasoning abilities
- Passion for planning and problem analysis
- Good language and communication skills
- Strong problem-solving skills
- Inquisitive and innovative
- Ability to work well in a team
- Critical thinking skills
- Quick and agile thinking
- Adaptability to change



# What makes this programme unique?

UP Statistics and Mathematical Statistics students can obtain Statistical Analysis Software (SAS) certification from SAS, an international statistical software developer (www.sas.com), for:

- Introduction to statistical learning
- Statistical learning
- Introduction to big data analytics
- Big data analytics

This programme also enhances students' understating of statistics, which is a vital part of modern life and business and is used daily to make sense of the world around us. For example, it helps them to understand how social media platforms personalise content and suggestions for different people.

This programme is presented in collaboration with the UP Faculty of Natural and Agricultural Sciences.



### Structure of the programme

#### **Core modules (compulsory)**

**Note:** All first-year students take the compulsory fundamental modules on academic information management and academic literacy for EMS.

1st year	2nd year	Final year
<ul> <li>Statistics or Mathematical statistics</li> <li>Economics</li> <li>Financial accounting</li> <li>Business management</li> <li>Informatics (accounting software)</li> </ul>	<ul> <li>Statistics or Mathematical statistics</li> <li>Communication management</li> </ul>	<ul> <li>Statistics or Mathematical statistics</li> </ul>

#### **Elective modules**

1st year	2nd year	Final year			
<ul> <li>Mathematics</li> <li>Informatics</li> <li>Financial management</li> <li>Economics</li> <li>Computer science</li> </ul>	<ul> <li>Mathematics</li> <li>Informatics</li> <li>Investment management</li> <li>Economics</li> </ul>	<ul> <li>Mathematics</li> <li>Informatics</li> <li>Investment management</li> <li>Economics</li> </ul>			



'I have always had a passion for numbers and technology in high school. I am glad I discovered the Bachelor of Commerce specialising in Statistics and Data Science when things did not go as planned in the degree I registered for initially, which was the Bachelor of Science in Mathematical Statistics. This Bachelor of Commerce degree combines numbers, technology, and statistics, which was perfect for me as I had already grown fond of statistics during the first year of my previously mentioned degree.

This degree branches into the latest career fields that are growing fast and require scarce skills like data science, data analysis, and data engineering. I believe this degree has prepared me for these career fields, and I intend to pursue the Bachelor of Commerce tatistics and Data Science to breaden mylencyledge.

Honours specialising in Statistics and Data Science to broaden my knowledge.

The degree change was one of the best decisions I could have made, and I encourage anyone with a passion for numbers and technology to consider this degree as it sets you up for a successful future.'

Musa Maleka - Bachelor of Commerce specialising in Statistics and Data Science



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# Bachelor of Commerce specialising in Statistics and Data Science (continued)





### **Minimum admission requirements**

	Minimum requirements for NSC/IEB for 2026				
	Achieven				
Programmes	English Home Language or English First Additional Language	Mathematics	APS		
Bachelor of Commerce specialising in Statistics and Data Science [3 years]	5	5	32		

Careers: Data scientists, statistical analysts in several industries, researchers, consultants and lecturers

Note: Accounting at school is not a subject requirement for any of the Bachelor of Commerce and Bachelor of Administration programmes.



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Fakulteit Ekonomiese en Bestuurswetenskapp Lefapha la Disaense tša Ekonomi le Taolo 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 ECONOMIC AND	Compulsory	CIE	UK		GCE	GCE	IB SL	IB HL	KOMBI	KCSE
Programmes	500,000	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 Commerce in Accounting										
Bachelor of Commerce specialising in Investment Management	English Mathematics	C B	4 6	3 2	C B	E D	4 5	3 4	60-69% 70-79%	B B+
Bachelor of Commerce specialising in Econometrics										
Bachelor of Commerce specialising in Financial Management Sciences		c ics C	4 4	3 3	C C	E E	4 4	3 3	60-69% 60-69%	B B
Bachelor of Commerce specialising in Economics	English									
Bachelor of Commerce specialising in Law										
Bachelor of Commerce specialising in Statistics and Data Science	Mathematics									
Bachelor of Commerce specialising in Agribusiness Management	-									
Bachelor of Commerce specialising in Information Systems										
Bachelor of Commerce [3-year programme]	English Mathematics	h C ematics D	4 3	3 3	C D	E E	4 2	3 2	60-69% 50-59%	B C+
Bachelor of Commerce specialising in Business Management										
Bachelor of Commerce specialising in Supply Chain Management										
Bachelor of Commerce specialising in Marketing Management										
Bachelor of Commerce specialising in Human Resource Management										
Bachelor of Administration specialising in Public Administration	English Mathematics	C E	4 2	3 4	C E	E	4	3 2	60-69% 40-49%	B C
Bachelor of Commerce [4-year programme]	English Mathematics	D E	3 2	3 4	D E	E	2 2	2 2	60-69% 40-49%	C+ C

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