

### Faculty of Economic and Management Sciences

Fakulteit Ekonomiese en Bestuurswetenskappe Lefapha la Disaense tša Ekonomi le Taolo

## BCom (Statistics and Data Science)



Make today matter

#### What does the programme entail?

The three-year BCom (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.

#### Structure of the programme

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

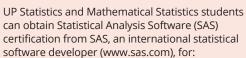
**Note:** All first-year students take the compulsory fundamental modules on academic information management and academic literacy for EMS.

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>	Statistics or Mathematical statistics

#### **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>Agricultural economics</li> <li>Actuarial mathematics</li> <li>Economics</li> <li>Business accounting</li> <li>Introduction to moral and political philosophy</li> </ul>	<ul> <li>Mathematics</li> <li>Agricultural economics</li> <li>Actuarial mathematics</li> <li>Economics</li> <li>Business accounting</li> </ul>			

#### What makes this programme unique?



- 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 jointly presented with the UP Faculty of Natural and Agricultural Sciences.

#### Who are the ideal candidates?

Characteristics of students who excel in this programme are:

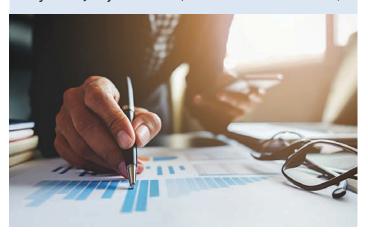
- Strong numerical skills
- Interest in computers and computer programming
- Logical reasoning ability
- Interest in planning and in analysing problems
- Good language and communication skills
- Strong problem-solving skills
- Inquisitive
- Innovative
- Team player
- Critical thinking skills
- Agile mind
- Adaptability

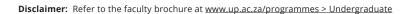


'Throughout my life I have been preoccupied with numbers and probabilities. I have often wondered about whether we can predict what will happen to humanity in the near future, how fast our population is growing, and even what the next winning Lotto numbers

might be. I chose to study BCom (Statistics and Data Science) as it gives me the opportunity to gain the analytical skills needed to better understand what is happening now and might happen in the future. Studying statistics has given me a broad knowledge of data science principles and coding languages. Modules such as Applications in Data Science, Statistics and Economics have dramatically improved my mathematical skills, which also impacts the logical decisions I make in my everyday life. In fact, it has taught me how to read between the lines.'

Cayelaem Jantjies - BCom (Statistics and Data Science)







### Faculty of Economic and Management Sciences

Fakulteit Ekonomiese en Bestuurswetenskappe Lefapha la Disaense tša Ekonomi le Taolo

# BCom (Statistics and Data Science)

(continues)



Make today matter



#### Minimum admission requirements

	Minimum requirements for NSC/IEB for 2024			
	Achieven	nent level		
Programmes	English Home Language or English First Additional Language	Mathematics	APS	
BCom (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 BCom and BAdmin programmes.

Contact information | Website www.up.ac.za/statistics

**Disclaimer:** Refer to the faculty brochure at <a href="www.up.ac.za/programmes">www.up.ac.za/programmes</a> > <a href="Undergraduate">Undergraduate</a>