

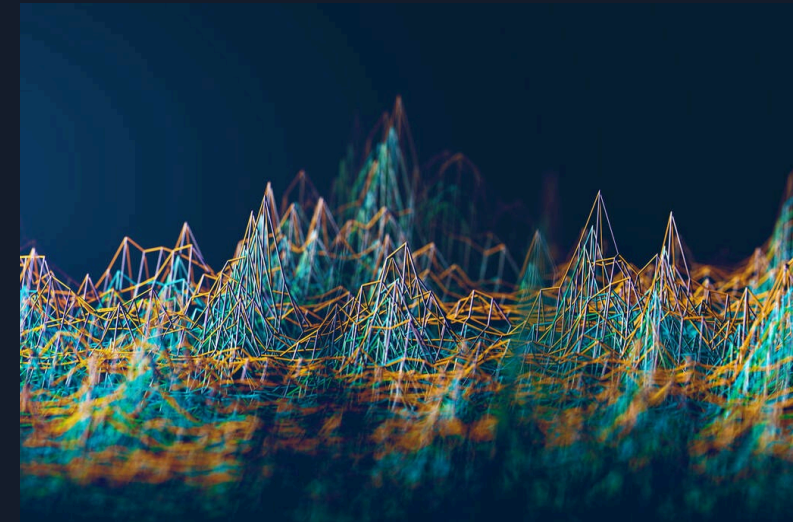
"[Statistics] is the most important science in the whole world... for upon it depends the practical application of every other [science] and of every art: the one science essential to all political and social administration, all education, all organization based on experience, for it only gives results of our experience."

- Florence Nightingale

Change the World

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Faculty of Science

Statistics



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Introduction

The demand for statisticians has increased rapidly over the last two decades. The information age has seen an explosion in the amount of data that is stored by companies.

In the BSc Statistics programme, you will be taught how to understand, summarise and extract value from data. The most common combinations with statistics are applied mathematics, mathematics, computer science. More advanced statistical methods are also required for long-term decision making and planning. These skills are developed at the advanced undergraduate and graduate levels, which are essential for should you also wish to enter the **Data Science** space.

Two possible programmes offer a BCom degree with a major in statistics. The BCom degree with Economics is the most common choice for candidates and provides a pathway for graduates to work in the financial field including investment management. The BCom degree with Business Management is useful for candidates who intend following a career in market research, product marketing and survey analysis.

Entrance Requirements

Stream	AS	Maths
BSc	410	≥ 65
BCom	390	≥ 60

(AS = Applicant Score)

- Minimum NSC statutory requirements for degree entry must be met.

Research Areas in the Statistics Department

- Data Science and Machine Learning
- Finance and Econometrics
- Biostatistics and Resource Management
- Bayesian Analysis
- Medical and Health Science
- Sports Statistics
- Renewable and Sustainable Energy

Skills acquired

- Critical Thinking
- Statistical Analysis and Modelling
- Data Mining and Wrangling
- Programming
- Experimental Design
- Problem Solving
- Communication
- Machine Learning



Careers in Statistics include

- Data Scientist
- Statistician
- Quantitative analyst
- Biostatistician
- Sports analyst
- Risk analyst
- Demand planner
- People analyst for HR departments
- Survey methodologist
- Market research analyst
- Business Intelligence (BI) analyst
- Statistical programmer
- Data Analyst
- Qualitative analyst

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