

BSc *Mathematical Statistics*

- [University of Pretoria](#)
- [Study at UP](#)
- BSc *Mathematical Statistics*

Statistics is the science of extracting information from a variety of data sources utilising cutting-edge technologies that enable companies and institutions to remain abreast and to be globally competitive. Statistics and data science form the foundation on which so much future development takes place. Superb opportunities exist for students who are keen to distinguish themselves in this field. You will not only enjoy an extraordinary and rewarding career, you will also receive an above-average remuneration package.

The Bachelor of Science *Mathematical Statistics* programme can uniquely combine students' interest in mathematical statistics with their interest in, for example, insurance science, economics, mathematics and applied mathematics.

By completing this programme you will therefore be positioned at the forefront of analytical thinking and application in the statistical, computational and interdisciplinary environments of the future.

An ideal candidate for this programme is someone with:

- strong numerical skills;
- interest in computers and computer programming;
- logical reasoning ability and critical thinking skills; and
- strong problem-solving skills.

Our graduates are employed by:

- Commerce companies (especially online shopping, customer analytics and recommender systems)
- Financial and banking companies
- Health companies
- Information technology companies
- Insurance and accounting companies
- Logistics and transport companies
- Pharmaceutical industries
- Research and development organisations
- Telecommunication companies
- Universities and other education bodies

For more information, please consult the Faculty webpage.

Career Opportunities

By completing this programme you will be positioned at the forefront of analytical thinking and application in the statistical, computational and interdisciplinary environments of the future. What career opportunities exist for you as a graduate? Many professions amongst others: Data scientist, data analyst, financial risk analyst, financial analyst, geospatial information analyst, biostatistician, statistical software engineer. Some examples of career opportunities are:

- Google Analytics use statistics to track internet users to generate leads for their recommended engines.
 - Movement information captured by cell phones is used by statistical predictive models to predict traffic congestion and suggests faster routes.
 - Statisticians make use of statistical methodologies to detect fraud, assist with credit-related portfolios and also forecast financial economic trends.
 - Retail companies study their customer satisfaction and customer experience using statistical models.
 - Spatial statistics can provide useful information about climate changes, crime hot spots and rhino poaching geographical maps.
 - Statisticians advise animal scientists on the factors affecting animal nutrition and genetic breeding plans.
 - Government employs statisticians to understand how population demographics, health risks and other factors influence sustainable development programmes.
-

Programme Code

02133274

Closing Dates

- **SA** – 30/06/2024
 - **Non-SA** – 30/06/2024
-

Admission Requirements

Important information for all prospective students for 2025

The admission requirements below apply to all who apply for admission to the University of Pretoria with a **National Senior Certificate (NSC) and Independent Examination Board (IEB) qualifications**. [Click here](#) for this Faculty Brochure.

Minimum requirements Achievement level

| English Home Language or English First Additional Language | Mathematics | APS |
|---|--------------|-----------|
| NSC/IEB 5 | NSC/IEB 6 | 34 |

Life Orientation is excluded when calculating the APS.

Applicants currently in Grade 12 must apply with their final Grade 11 (or equivalent) results.

Applicants who have completed Grade 12 must apply with their final NSC or equivalent qualification results.

Please note that meeting the minimum academic requirements does not guarantee admission.

Successful candidates will be notified once admitted or conditionally admitted.

Unsuccessful candidates will be notified after 30 June.

Applicants should check their application status regularly on the UP Student Portal at [click here](#).

Applicants with qualifications other than the abovementioned should refer to the International undergraduate prospectus 2025: Applicants with a school leaving certificate not issued by Umalusi (South Africa), available at [click here](#).

International students: [Click here](#).

Transferring students

A transferring student is a student who, at the time of applying at the University of Pretoria (UP) is/was a registered student at another tertiary institution. A transferring student will be considered for admission based on NSC or equivalent qualification and previous academic performance. Students who have been dismissed from other institutions due to poor academic performance will not be considered

for admission to UP.

Closing dates: Same as above.

Returning students

A returning student is a student who, at the time of application for a degree programme is/was a registered student at UP, and wants to transfer to another degree at UP. A returning student will be considered for admission based on NSC or equivalent qualification and previous academic performance.

Note:

- Students who have been excluded/dismissed from a faculty due to poor academic performance may be considered for admission to another programme at UP, as per faculty-specific requirements.
- Only ONE transfer between UP faculties and TWO transfers within a faculty will be allowed.
- Admission of returning students will always depend on the faculty concerned and the availability of space in the programmes for which they apply.

Closing date for applications from returning students

Unless capacity allows for an extension of the closing date, applications from returning students must be submitted before the end of August via your UP Student Centre.

Minimum duration of study

3 years, full-time

Faculty Notes

All modules will only be presented in English, which is the University's official language of tuition, communication and correspondence.

The Faculty of Natural and Agricultural Sciences is home to more than 6 500 undergraduate and postgraduate students. The Faculty presents degrees in fields ranging from the proverbial A to Z – from actuaries to zoologists, and consists of 13 departments.

All degree programmes are designed to develop problem-solving individuals who can easily adapt to changing circumstances and take the lead in their chosen fields of specialisation. The qualifications awarded are of world-class and provide access to a multitude of career opportunities for dynamic and



creative people. According to the latest Times Higher Education World University Rankings the University has achieved new world rankings in Physical Sciences, a discipline which features strongly in NAS and also maintains excellent positions on the ISI Web of Science (WOS) field rankings in Plant and Animal Sciences, Agricultural Sciences, and Environment and Ecology Sciences.

In the Faculty of Natural and Agricultural Sciences, we strive to continuously improve our high impact research and significantly address the national shortage of PhD graduates that respond to global and local challenges.

- **Disclaimer:** *This publication contains information about regulations and programmes of the University of Pretoria. Amendments to or updating of the information may be effected from time to time without prior notification. The accuracy, correctness or validity of the information contained here is therefore not guaranteed by the University at any given time and is always subject to verification. The user is kindly requested to verify the correctness of the information with the University at all times. Failure to do so will not give rise to any claim or action of any nature against the University by any party whatsoever.*

Enquiries about the programme

[Click Here](#)



How to apply



Online Application



Note: Also consult General Rules and Information on the Yearbook website for additional information.

Disclaimer: Due to the continuous restructuring of the Faculty and this website, some of the information displayed here may not fully reflect the most recent developments in the Faculty. Any discrepancies that are experienced may be taken up with Student Administration of the Faculty.