

University of Pretoria Yearbook 2025

BCom *Statistics* (07130264)

Department Statistics

Minimum duration of study 3 years

Total credits 393

NQF level 07

Programme information

Statistics is an independent discipline with interdisciplinary applications. The aim of this programme is to prepare the candidates in totality with methods that can be applied for the gathering and interpretation of data and empirical information. Statistics lay the foundation for scientific accountable conclusions, planning and estimation. Candidates are equipped detailed computer and communication skills throughout the course. Statistics is commissioned by all disciplines where it can contribute towards scientific and technological progress, most notably in data science. This qualification trains a statistician to work in a data science environment.

Students who achieved 70% and above in English Home Language (an A or a B), and 80% and above in English First Additional Language (only an A) in the NSC (or equivalent) will be exempted from ALL 124 and therefore do not have to register and pass this module to complete their degrees. Students who achieved 69% and below in English Home Language (a C and below), and 79% and below in English First Additional Language (a B and below) have to register for ALL 124 and will have to pass this module in order to be awarded their degrees.

Students who achieved 70% for English at Cambridge A level or AS level will be exempted from ALL 124.

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	NSC/IEB	
5	5	32

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.

Additional requirements

General Academic Regulations G1 to G15 apply to a bachelor's degree.

1. A student may not take more than the prescribed number of modules per semester unless permission has been obtained from the Dean.
2. A module that has already been passed may only be repeated with the approval of the Dean.
3. It remains the student's responsibility to ascertain, prior to registration, whether all the modules they intend taking can be accommodated in the class, test and examination timetables.
4. The Faculty of Economic and Management Sciences supports an outcomes-based education system and places a high premium on the development of specific academic competences. Class attendance of all modules and for the full duration of all programmes is therefore compulsory for all students.
5. The Dean has the right of authorisation regarding matters not provided for in the General Academic Regulations or the Faculty regulations.



Other programme-specific information

- Total credits refer to minimum as required by the programme, but can be more, depending on the elective modules.
- The only WST module that students are allowed to take along with the STK modules is WST 212. The only STK modules that students are allowed to take along with the WST modules are STK 320 and STK 353.
- Alternative credits as indicated in brackets are based on choosing WST as a specialisation module instead of STK, while all elective modules are selected within the Faculty of Economic and Management Sciences.
- Only two 14-week modules on the 300-level, or the equivalent thereof, that are not preceded by the 100- and 200-level modules, may be taken for degree purposes. In other words, at least four 14-week modules must be taken at 300-level that are preceded by the 100- and 200-level apart from the modules offered only at 200- and 300-level.
- The number of elective modules is influenced by the inclusion of modules from other faculties and their respective credit values.

With regard to choosing elective modules:

It is recommended that COS 132 be taken as an elective by all students in this programme. Students can then follow one of the following elective options depending on their specific career requirements. Students must choose enough credits to make up the minimum credits of the relevant study year, while ensuring prerequisites for subsequent years are met – it is not necessary for students to take all the modules listed in each stream. Other options are possible subject to consultation with and approval by the programme coordinator.

1. Mathematical Statistics option with major WST 111, WST 121, WST 211, WST 221, WST 212, WST 311, WST 312, STK 320, STK 353:

Year 1: WTW 114 (16), WTW 124 (16)

Year 2: WTW 211 (12), WTW 218 (12) and (WTW 220 (12) or WTW 224 (12)), WTW 221 (12), WTW 264 (12), WTW 248 (12) or three from EKN 214 (16), EKN 234 (16), EKN 224 (16), EKN 244 (16)

Year 3: Choose from WTW 310 (18), WTW 382 (18), WTW 354 (18), WTW 364 (18), WTW 381 (18), WTW 389 (18), WTW 320 (18), WST 322 (18), EKN 310 (20), EKN 315 (20), EKN 320 (20), EKN 325 (20).

2. Mathematics option with major STK 110, STC 122, STK 210, STK 220, WST 212, STK 310, STK 320, STK 353:

Year 1: WTW 114 (16), WTW 124 (16)

Year 2: WTW 218 (12), WTW 211 (12), (WTW 220 (12) or WTW 224 (12)), WTW 221 (12), WTW 264 (12), WTW 248 (12)

Year 3: Choose four from WTW 310 (18), WTW 382 (18), WTW 381 (18), WTW 389 (18), WTW 320 (18)

3. Economics option with major STK 110, STC 122, STK 210, STK 220, WST 212, STK 310, STK 320, STK 353:

Year 1: COS 132 (16), COS 122 (16), COS 151 (8), INF 154 (10), INF 164 (10), INF 171 (20), INF 112 (10)

Year 2: EKN 214 (16), EKN 234 (16), EKN 224 (16), EKN 244 (16), INF 261 (7), INF 264 (8), INF 214 (7)

Year 3: Choose from EKN 310 (20), EKN 315 (20), EKN 320 (20), EKN 325 (20), LEK 310 (16), LEK 320 (20)

4. Informatics option with major STK 110, STC 122, STK 210, STK 220, WST 212, STK 310, STK 320, STK 353:

Year 1: INF 154 (10), INF 164 (10), INF 171 (20), INF 112 (10)

Year 2: INF 272 (16), INF 225 (14), INF 261 (14), INF 214 (14), INF 271 (14), INF 264 (8), INF 272 (14)

Year 3: Choose from INF 315 (15), INF 324 (15), INF 354 (15), INF 370 (35). Note that INF 370 and INF 354 must be selected together.

5. Investment Management option with major STK 110, STC 122, STK 210, STK 220, WST 212, STK 310, STK 320, STK 353:

Year 1: FRK 121 (12) + choose from COS 132 (16), COS 122 (16), COS 151 (8), INF 112 (10), INF 154 (10), INF 164 (10), WTW 114 (16), WTW 124 (16)



Year 2: BAC 200 (32), EKN 214 (16), IVM 200 (32), EKN 234 (16)

Year 3: BAC 300 (20), IVM 300 (40)

Specialisation modules: WST 212, STK 310, 320, 353 or WST 212, 311, 312, 321, STK 320, STK 353.

"Major subject"

To be considered a "major subject" the equivalent of four 14-week modules, including two at 300-level, must be passed provided that:

- a module passed at 300-level shall only be recognised for degree purposes if the corresponding prescribed module(s) at 200-level has/have been passed, unless the Dean decides otherwise;
- the following modules which are offered at 300-level only, are also considered "major subjects": Labour law 311 (ABR 311), Labour relations 320 (ABV 320), and International business management 359 (OBS 359); and
- only two 14-week modules, or the equivalent thereof, that are not preceded by the 100- and 200-level modules, may be taken for degree purposes. In other words, at least four 14-week modules must be taken at 300-level that are preceded by the 100- and 200-level, except for modules offered on 200- and 300-level only.

It is thus the responsibility of students to ensure before registration, that their curricula comply with all the requirements of the applicable regulations.

Promotion to next study year

According to General Academic Regulation G3 students have to comply with certain requirements as set by the Faculty Board.

1. In order to register for the next year of study a student must pass at least 60% of the official credits listed for a year level of study for a three-year programme.
2. A student will be deemed to be in the second, third or a more senior year once he or she enrolls for any module in any of these levels of study.
3. If a student has passed less than the required minimum of at least 60% of the official credits listed for a year level, he/she will not be readmitted to the Faculty of Economic and Management Sciences. Such a student may apply in writing to the EMS Appeals Committee to be readmitted conditionally – with the proviso that the Appeals Committee may set further conditions with regard to the student's academic progress. The Committee may deny a student's application for readmission.
4. If a student has been readmitted conditionally, his/her academic progress will be monitored after the first semester examinations to determine whether he/she has complied with the requirements set by the EMS Appeals Committee. If not, his/her studies will be suspended.
5. A student whose studies have been suspended because of his/her poor academic performance has the right to appeal against the decision of the EMS Faculty Appeals Committee.
6. A student may be refused admission to the examination, or promotion to a subsequent year of study or promotion in a module (if applicable) if he/ she fails to fulfil the attendance requirements. Class attendance in all modules and for the full duration of all programmes is compulsory for all students.

Pass with distinction

- a. A degree may be awarded with distinction provided the candidate meets the following criteria:
 - i. Completes the degree within three years;
 - ii. Obtains a Cumulative Grade Point Average (CGPA) of 75%;



- iii. Repeated passed modules will not be considered. The initial pass mark of module will be used when calculating the GPA.
- b. A degree will only be awarded with distinction to transferees from other degrees in the Faculty of Economic and Management Sciences, other faculties and from other universities who still complete their bachelor degrees within three years (including the years registered for the other degree and credits transferred and recognised).
- c. The GPA will be not be rounded up to a whole number.
- d. Exceptional cases will be considered by the Dean.

General information

Application of amended programme regulations

Refer to General Academic Regulation G5.



Curriculum: Year 1

Minimum credits: 135

Please note this degree is a specialization in Statistics and Data Science.

Fundamental modules

Academic information management 111 (AIM 111) - Credits: 4.00

Academic information management 121 (AIM 121) - Credits: 4.00

Academic literacy for Economic and Management Sciences 124 (ALL 124) - Credits: 6.00

Academic orientation 107 (UPO 107) - Credits: 0.00

Core modules

Economics 110 (EKN 110) - Credits: 10.00

Economics 120 (EKN 120) - Credits: 10.00

Financial accounting 111 (FRK 111) - Credits: 10.00

Financial accounting 121 (FRK 121) - Credits: 12.00

Financial accounting 122 (FRK 122) - Credits: 12.00

Informatics 183 (INF 183) - Credits: 3.00

Business management 114 (OBS 114) - Credits: 10.00

Business management 124 (OBS 124) - Credits: 10.00

Statistics 122 (STC 122) - Credits: 13.00

Statistics 110 (STK 110) - Credits: 13.00

Mathematical statistics 111 (WST 111) - Credits: 16.00

Mathematical statistics 121 (WST 121) - Credits: 16.00

Elective modules

Operating systems 122 (COS 122) - Credits: 16.00

Imperative programming 132 (COS 132) - Credits: 16.00

Introduction to computer science 151 (COS 151) - Credits: 8.00

Financial management 112 (FBS 112) - Credits: 10.00

Financial management 122 (FBS 122) - Credits: 10.00

Informatics 112 (INF 112) - Credits: 10.00

Informatics 154 (INF 154) - Credits: 10.00

Informatics 164 (INF 164) - Credits: 10.00

Informatics 171 (INF 171) - Credits: 20.00

Calculus 114 (WTW 114) - Credits: 16.00

Mathematics 124 (WTW 124) - Credits: 16.00



Curriculum: Year 2

Minimum credits: 130

Please note this degree is a specialization in Statistics and Data Science.

Core modules

- Communication management 281 (KOB 281) - Credits: 5.00
- Statistics 210 (STK 210) - Credits: 20.00
- Statistics 220 (STK 220) - Credits: 20.00
- Mathematical statistics 211 (WST 211) - Credits: 24.00
- Applications in data science 212 (WST 212) - Credits: 12.00
- Mathematical statistics 221 (WST 221) - Credits: 24.00

Elective modules

- Business accounting 200 (BAC 200) - Credits: 32.00
- Economics 214 (EKN 214) - Credits: 16.00
- Economics 224 (EKN 224) - Credits: 16.00
- Economics 234 (EKN 234) - Credits: 16.00
- Economics 244 (EKN 244) - Credits: 16.00
- Introduction to moral and political philosophy 252 (FIL 252) - Credits: 10.00
- Informatics 214 (INF 214) - Credits: 14.00
- Informatics 225 (INF 225) - Credits: 14.00
- Informatics 261 (INF 261) - Credits: 7.00
- Informatics 264 (INF 264) - Credits: 8.00
- Informatics 271 (INF 271) - Credits: 14.00
- Informatics 272 (INF 272) - Credits: 14.00
- Investment management 200 (IVM 200) - Credits: 32.00
- Introduction to agricultural economics 210 (LEK 210) - Credits: 14.00
- Agricultural economics 220 (LEK 220) - Credits: 12.00
- Linear algebra 211 (WTW 211) - Credits: 12.00
- Calculus 218 (WTW 218) - Credits: 12.00
- Analysis 220 (WTW 220) - Credits: 12.00
- Linear algebra 221 (WTW 221) - Credits: 12.00
- Techniques of analysis 224 (WTW 224) - Credits: 12.00
- Vector analysis 248 (WTW 248) - Credits: 12.00
- Differential equations 264 (WTW 264) - Credits: 12.00



Curriculum: Final year

Minimum credits: 130

Please note this degree is a specialization in Statistics and Data Science.

Core modules

- Statistics 310 (STK 310) - Credits: 25.00
- Statistics 320 (STK 320) - Credits: 25.00
- The science of data analytics 353 (STK 353) - Credits: 25.00
- Multivariate analysis 311 (WST 311) - Credits: 18.00
- Stochastic processes 312 (WST 312) - Credits: 18.00

Elective modules

- Business accounting 300 (BAC 300) - Credits: 40.00
- Economics 310 (EKN 310) - Credits: 20.00
- Development economics 315 (EKN 315) - Credits: 20.00
- Economics 320 (EKN 320) - Credits: 20.00
- Economics 325 (EKN 325) - Credits: 20.00
- Informatics 315 (INF 315) - Credits: 15.00
- Informatics 324 (INF 324) - Credits: 15.00
- Informatics 354 (INF 354) - Credits: 15.00
- Informatics 370 (INF 370) - Credits: 35.00
- Investment management 300 (IVM 300) - Credits: 40.00
- Agricultural economics 310 (LEK 310) - Credits: 16.00
- Agricultural economics 320 (LEK 320) - Credits: 20.00
- Actuarial statistics 322 (WST 322) - Credits: 18.00
- Analysis 310 (WTW 310) - Credits: 18.00
- Complex analysis 320 (WTW 320) - Credits: 18.00
- Financial engineering 354 (WTW 354) - Credits: 18.00
- Financial engineering 364 (WTW 364) - Credits: 18.00
- Algebra 381 (WTW 381) - Credits: 18.00
- Dynamical systems 382 (WTW 382) - Credits: 18.00
- Numerical analysis 383 (WTW 383) - Credits: 18.00
- Geometry 389 (WTW 389) - Credits: 18.00

General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.



Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.

University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.