



# University of Pretoria Yearbook 2023

## MSc (Mathematical Statistics) *Advanced Data Analytics* (Coursework) (02250196)

**Department** Statistics

**Minimum duration of study** 1 year

**Total credits** 180

**NQF level** 09

### Programme information

Details of compilation of curriculum are available from the Head of the Department of Statistics as well as from the departmental postgraduate brochure.

A candidate must compile his/her curriculum in consultation with the head of department or his representative. Refer to the Departmental website for further information.

### Admission requirements

1. BScHons in Mathematical Statistics degree **or** relevant honours degree
2. A weighted average of at least 65% at honours level
3. At least 65% for the research component at honours level, **but** students with a weighted average of at least 70% or more will receive preference
4. An admission examination may be required

Note: Additional modules may be required in order to reach the desired level of competency

### Promotion to next study year

The progress of all master's candidates is monitored biannually by the supervisor and the postgraduate coordinator. A candidate's study may be terminated if the progress is unsatisfactory or if the candidate is unable to finish his/her studies during the prescribed period.

Subject to exceptions approved by the Dean, on recommendation of the relevant head of department, and where applicable, a student may not enter for the master's examination in the same module more than twice.

### General 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 (HEQF) 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.*



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## Curriculum: Final year

### Fundamental modules

Research orientation 899 (STK 899) - Credits: 0.00

### Core modules

Mini-dissertation: Mathematical statistics 895 (WST 895) - Credits: 100.00

### Elective modules

Statistical and machine learning 880 (MVA 880) - Credits: 20.00

Capita selecta: Statistics 880 (STK 880) - Credits: 20.00

Analysis of time series 880 (TRA 880) - Credits: 20.00

Data science: analytics and visualisation 880 (TRG 880) - Credits: 20.00

Cyber analytics 802 (WST 802) - Credits: 20.00

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### Regulations and rules

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

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.

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