



University of Pretoria Yearbook 2022

BScHons *Mathematics* (02240182)

Department Mathematics and Applied Mathematics

Minimum duration of study 1 year

Total credits 135

NQF level 08

Admission requirements

1. BSc (Mathematics) degree **or** BSc (Applied Mathematics) degree **or** relevant bachelor's degree
2. At least 60% for all mathematics and applied mathematics modules at final-year level
3. A minimum of 60% for each of the following subjects/modules (or equivalent) at final-year level:

- Real analysis
- Algebra

Promotion to next study year

The progress of all honours candidates is monitored biannually by the postgraduate coordinator/head of department. 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.



Curriculum: Final year

Minimum credits: 135

Stream 1: Applied analysis

Core credits: 75 credits

Elective credits: 60 credits

Stream 2: Differential equations and modelling

Core credits: 135 credits

Core modules

[Functional analysis 710 \(WTW 710\)](#) - Credits: 15.00

[Axiomatic set theory and mathematical logic 724 \(WTW 724\)](#) - Credits: 15.00

[Algebra 731 \(WTW 731\)](#) - Credits: 15.00

[Measure theory and probability 734 \(WTW 734\)](#) - Credits: 15.00

[Topology 790 \(WTW 790\)](#) - Credits: 15.00

[Project 795 \(WTW 795\)](#) - Credits: 30.00

Elective modules

[Special topics 727 \(WTW 727\)](#) - Credits: 15.00

[Numerical analysis 733 \(WTW 733\)](#) - Credits: 15.00

[Finite element method 763 \(WTW 763\)](#) - Credits: 15.00

[Stochastic calculus 764 \(WTW 764\)](#) - Credits: 15.00

[Mathematical methods and models 772 \(WTW 772\)](#) - Credits: 15.00

[Partial differential equations of mathematical physics 776 \(WTW 776\)](#) - Credits: 15.00

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.