

University of Pretoria Yearbook 2022

BScHons (Mathematics and Mathematics Education) (Algebra and Analysis) (02240183)

Department	Mathematics and Applied Mathematics
Minimum duration of study	1 year
Total credits	137
NOF level	08

Programme information

The programme consists of seven honours modules (five modules of 15 credits each from the Department of Mathematics and Applied Mathematics and two modules of 16 credits each from the Department of Science, Mathematics and Technology Education) as well as the compulsory research project (30 credits). Elective modules should be selected according to the prerequisites of these modules.

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):
- · Real analysis at final-year level
- Algebra at final-year level

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: 137

Select any two electives offered in the BScHons (Mathematics) or BScHons (Applied Mathematics) programmes, provided that the prerequisites are met with.

Fundamental modules

Project 795 (WTW 795) - Credits: 30.00

Core modules

Mathematics and mathematical literacy education 730 (MCE 730) - Credits: 16.00

Educational research methodology 745 (NMQ 745) - Credits: 16.00

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

Elective modules

Special topics 727 (WTW 727) - Credits: 15.00

Main principles of analysis in application 735 (WTW 735) - Credits: 15.00

Mathematical optimisation 750 (WTW 750) - 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.