



# Universiteit van Pretoria Jaarboek 2018

## BScHons Wiskunde en Wiskundeonderwys Differensiaalvergelykings en Modelling (02240185)

**Minimum duur van studie** 1 jaar

**Totale krediete** 137

### Programinligting

*Hierdie inligting is slegs in Engels beskikbaar.*

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.

Candidates are required to familiarise themselves with the General Regulations regarding the maximum period of registration and other requirements for honours degrees.

### Toelatingsvereistes

A BSc in Mathematics, Applied Mathematics or equivalent degree with at least a 60% average in the final year Mathematics or Applied Mathematics subjects. The final year should include at least four of the following third-year level modules or equivalent: partial differential equations, dynamical systems (ordinary differential equations), real analysis, complex analysis, numerical analysis and continuum mechanics. In the selection procedure the candidate's complete undergraduate academic record will be considered.

### Bevordering tot volgende studiejaar

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.

### Slaag met lof

The BScHons degree is awarded with distinction to a candidate who obtains a weighted average of at least 75% in all the prescribed modules and a minimum of 65% in any one module.



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## Kurrikulum: Finale jaar

**Minimum krediete: 137**

### Fundamentele modules

Projek 795 (WTW 795) - Krediete: 30.00

### Kernmodules

Wiskunde- en wiskundegeletterheid onderwys 730 (MCE 730) - Krediete: 16.00

Opvoedkundige navorsingsmetodologie 745 (NMQ 745) - Krediete: 16.00

Numeriese analise 733 (WTW 733) - Krediete: 15.00

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

Wiskundige optimering 750 (WTW 750) - Krediete: 15.00

Parsiële differensiaalvergelings van wiskundige fisika 776 (WTW 776) - Krediete: 15.00

### Keusemodules

Spesiale temas 727 (WTW 727) - Krediete: 15.00

Maatteorie en waarskynlikheid 734 (WTW 734) - Krediete: 15.00

Eindige-elementmetode 763 (WTW 763) - Krediete: 15.00

Stogastiese calculus 764 (WTW 764) - Krediete: 15.00

Wiskundige metodes en modelle 772 (WTW 772) - Krediete: 15.00

Kontinuummeganika 787 (WTW 787) - Krediete: 15.00

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Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die [Algemene Regulasies \(G Regulasies\)](#) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertrouwd met hierdie regulasies sowel as met die inligting vervat in die [Algemene Reëls](#) sal wees. Onkunde betreffende hierdie regulasies en reëls sal nie as 'n verskoning by oortreding daarvan aangebied kan word nie.