

University of Pretoria Yearbook 2022

Differential equations 286 (WTW 286)

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| Qualification | Undergraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 12.00 |
| NQF Level | 06 |
| Programmes | BCom |
| | BSc (Computer Science) |
| | BSc (Meteorology) |
| | BSc (Applied Mathematics) |
| | BSc (Chemistry) |
| | BSc (Geography and Environmental Science) |
| | BSc (Mathematical Statistics) |
| | BSc (Mathematics) |
| | BSc (Physics) |
| Service modules | Faculty of Engineering, Built Environment and Information Technology |
| | Faculty of Economic and Management Sciences |
| Prerequisites | WTW 114, WTW 124, WTW 162, WTW 211# |
| Contact time | 1 tutorial per week, 2 lectures per week |
| Language of tuition | Module is presented in English |
| Department | Mathematics and Applied Mathematics |
| Period of presentation | Semester 1 |

Module content

*Students will not be credited for more than one of the modules for their degree: WTW 264, WTW 286
Theory and solution methods for ordinary differential equations and initial value problems: separable and linear first-order equations, linear equations of higher order, systems of linear equations. Application to mathematical models. Numerical methods applied to nonlinear systems. Qualitative analysis of linear systems.

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.