



# University of Pretoria Yearbook 2024

## Mathematics 134 (WTW 134)

**Qualification** Undergraduate

**Faculty** Faculty of Natural and Agricultural Sciences

**Module credits** 16.00

**NQF Level** 05

**Programmes** *BCom 3-year programme*

*BCom Economics*

*BEd (Senior Phase and Further Education and Training Teaching)*

*BSc Computer Science*

*BSc Construction Management*

*BSc Information and Knowledge Systems*

*BSc Quantity Surveying*

*BSc Real Estate*

*BSc (Biological Sciences)*

*BSc (Food Management) Culinary Science*

*BSc (Food Management) Nutrition*

*BSc (Geography) Geography and Environmental Science*

*BSc Biochemistry*

*BSc Biotechnology*

*BSc Ecology*

*BSc Entomology*

*BSc Food Science*

*BSc Genetics*

*BSc Geoinformatics*

*BSc Geology*

*BSc Human Genetics*

*BSc Human Physiology*

*BSc Human Physiology, Genetics and Psychology*

*BSc Medical Sciences*



[BSc Microbiology](#)

[BSc Plant Science](#)

[BSc Zoology](#)

[BScAgric Agricultural Economics and Agribusiness Management](#)

[BScAgric Animal Science](#)

[BScAgric Applied Plant and Soil Sciences](#)

[BScAgric Plant Pathology](#)

**Service modules**

Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Faculty of Veterinary Science

**Prerequisites**

50% for Mathematics in Grade 12

**Contact time**

1 tutorial per week, 4 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 following modules for their degree: WTW 134, WTW 165, WTW 114, WTW 158. WTW 134 does not lead to admission to Mathematics at 200 level and is intended for students who require Mathematics at 100 level only. WTW 134 is offered as WTW 165 in the second semester only to students who have applied in the first semester of the current year for the approximately 65 MBChB, or the 5-6 BChD places becoming available in the second semester and who were therefore enrolled for MGW 112 in the first semester of the current year.*

Functions, derivatives, interpretation of the derivative, rules of differentiation, applications of differentiation, integration, interpretation of the definite integral, applications of integration. Matrices, solutions of systems of equations. All topics are studied in the context of applications.

**General Academic Regulations and Student Rules**

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. The G Regulations are updated annually and may be amended after the publication of this information.



### **Regulations, degree requirements and information**

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this 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 (HEQSF) 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.