

# University of Pretoria Yearbook 2023

## Mathematics 124 (WTW 124)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	16.00
<b>NQF Level</b>	05
<b>Programmes</b>	<a href="#">BCom</a>
	<a href="#">BCom (Econometrics)</a>
	<a href="#">BCom Statistics</a>
	<a href="#">BEd (Senior Phase and Further Education and Training Teaching)</a>
	<a href="#">BSc (Computer Science)</a>
	<a href="#">BSc (Actuarial and Financial Mathematics)</a>
	<a href="#">BSc (Applied Mathematics)</a>
	<a href="#">BSc (Chemistry)</a>
	<a href="#">BSc (Engineering and Environmental Geology)</a>
	<a href="#">BSc (Geography) <i>Geography and Environmental Science</i></a>
	<a href="#">BSc (Geology)</a>
	<a href="#">BSc (Mathematical Statistics)</a>
	<a href="#">BSc (Mathematics)</a>
	<a href="#">BSc (Meteorology)</a>
	<a href="#">BSc (Physics)</a>
	<a href="#">BSc extended programme - Mathematical Sciences</a>
	<a href="#">BSc extended programme - Physical Sciences</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Education
	Faculty of Economic and Management Sciences
<b>Prerequisites</b>	WTW 114
<b>Contact time</b>	1 tutorial per week, 4 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Mathematics and Applied Mathematics

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**Period of presentation** Semester 2

**Module content**

\*Students will not be credited for more than one of the following modules for their degree:

WTW 124, WTW 146, WTW 148 and WTW 164. This module serves as preparation for students majoring in Mathematics (including all students who intend to enrol for WTW 218, WTW 211 and WTW 220).

The vector space  $R^n$ , vector algebra with applications to lines and planes, matrix algebra, systems of linear equations, determinants. Complex numbers and factorisation of polynomials. Integration techniques and applications of integration. The formal definition of a limit. The fundamental theorem of Calculus and applications. Vector functions and quadratic curves.

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**Regulations and rules**

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.

**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 (HEQF) 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.