

# University of Pretoria Yearbook 2022

## 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 (Statistics and Data Science)</a>
	<a href="#">BCom</a>
	<a href="#">BCom (Econometrics)</a>
	<a href="#">BEd (Senior Phase and Further Education and Training Teaching)</a>
	<a href="#">BSc (Computer Science)</a>
	<a href="#">BSc (Meteorology)</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 and Environmental Science)</a>
	<a href="#">BSc (Geology)</a>
	<a href="#">BSc (Mathematical Statistics)</a>
	<a href="#">BSc (Mathematics)</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

**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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