

# University of Pretoria Yearbook 2017

## Mathematics 124 (WTW 124)

**Qualification** Undergraduate

**Faculty** Faculty of Natural and Agricultural Sciences

**Module credits** 16.00

**Programmes** BCom

BCom Econometrics

BCom Statistics

BEd Senior Phase and Further Education and Training Teaching

BSc Computer Science

BSc Information and Knowledge Systems

BSc Actuarial and Financial Mathematics

BSc Applied Mathematics

BSc Chemistry

BSc Mathematical Statistics

BSc Mathematics

BSc Meteorology

BSc Physics

**Prerequisites** WTW 114

**Contact time** 4 lectures per week, 1 tutorial per week

**Language of tuition** Separate classes for Afrikaans and English

**Academic organisation** Mathematics and Applied Maths

**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, polar curves and quadratic curves.

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