



University of Pretoria Yearbook 2016

Mathematics 164 (WTW 164)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module content *This module is designed for first-year engineering students. Students will not be credited for more than one of the following modules for their degree: WTW 146, WTW 148 and WTW 124, Vector algebra with applications to lines and planes in space, matrix algebra, systems of linear equations, determinants, complex numbers, factorisation of polynomials and conic sections. Integration techniques, improper integrals. The definite integral, fundamental theorem of Calculus. Applications of integration. Elementary power series and Taylor's theorem. Vector functions, space curves and arc lengths. Quadratic surfaces and multivariable functions.

Module credits 16.00

Programmes [BEng Chemical Engineering](#)
[BEng Chemical Engineering Engage](#)
[BEng Civil Engineering](#)
[BEng Civil Engineering Engage](#)
[BEng Computer Engineering](#)
[BEng Computer Engineering Engage](#)
[BEng Electrical Engineering](#)
[BEng Electrical Engineering Engage](#)
[BEng Electronic Engineering](#)
[BEng Electronic Engineering Engage](#)
[BEng Industrial Engineering](#)
[BEng Industrial Engineering Engage](#)
[BEng Mechanical Engineering](#)
[BEng Mechanical Engineering Engage](#)
[BEng Metallurgical Engineering](#)
[BEng Metallurgical Engineering Engage](#)
[BEng Mining Engineering](#)
[BEng Mining Engineering Engage](#)
[BSc Environmental and Engineering Geology](#)



BSc Geology

Prerequisites	WTW 114 GS or WTW 158 GS
Contact time	4 lectures per week, 1 tutorial per week
Language of tuition	Both Afr and Eng
Academic organisation	Mathematics and Applied Maths
Period of presentation	Semester 2

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of each student to familiarise himself or herself well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.