



University of Pretoria Yearbook 2018

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 Engineering and Environmental Geology](#)



[BSc Geology](#)

Prerequisites	WTW 114 GS or WTW 158 GS
Contact time	1 tutorial per week, 4 lectures per week
Language of tuition	Separate classes for Afrikaans and English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 2

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