



# University of Pretoria Yearbook 2016

## Calculus 258 (WTW 258)

**Qualification** Undergraduate

**Faculty** Faculty of Natural and Agricultural Sciences

**Module content** Calculus of multivariable functions, directional derivatives. Extrema. Multiple integrals, polar, cylindrical and spherical coordinates. Line integrals and the theorem of Green. Surface integrals and the theorems of Gauss and Stokes.

**Module credits** 8.00

**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 Chemistry

BSc Environmental and Engineering Geology

BSc Environmental Sciences

BSc Mathematical Statistics

BSc Mathematics



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BSc Meteorology

BSc Physics

**Service modules** Faculty of Engineering, Built Environment and Information Technology

**Prerequisites** WTW 158 and WTW 164

**Contact time** 2 lectures per week, 1 tutorial per week

**Language of tuition** Both Afr and Eng

**Academic organisation** Mathematics and Applied Maths

**Period of presentation** Semester 1

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