



University of Pretoria Yearbook 2020

Calculus 218 (WTW 218)

Qualification Undergraduate

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

Module credits 12.00

Programmes [BCom](#)

[BCom Econometrics](#)

[BCom Statistics](#)

[BCom Statistics and Data Science](#)

[BEd Senior Phase and Further Education and Training Teaching](#)

[BSc Actuarial and Financial Mathematics](#)

[BSc Applied Mathematics](#)

[BSc Chemistry](#)

[BSc Engineering and Environmental Geology](#)

[BSc Geology](#)

[BSc Mathematical Statistics](#)

[BSc Mathematics](#)

[BSc Physics](#)

Service modules [Faculty of Engineering, Built Environment and Information Technology](#)

[Faculty of Education](#)

[Faculty of Economic and Management Sciences](#)

Prerequisites [WTW 114](#) and [WTW 124](#)

Contact time 1 tutorial per week, 2 lectures per week

Language of tuition Module is presented in English

Department [Mathematics and Applied Mathematics](#)

Period of presentation Semester 1

Module content

Calculus of multivariable functions, directional derivatives. Extrema and Lagrange multipliers. Multiple integrals, polar, cylindrical and spherical coordinates.



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