



# University of Pretoria Yearbook 2016

## Calculus 218 (WTW 218)

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| <b>Qualification</b>         | Undergraduate  |
| <b>Faculty</b>               | Faculty of Natural and Agricultural Sciences   |
| <b>Module credits</b>        | 12.00  |
| <b>Programmes</b>            | BCom Econometrics<br>BCom Statistics<br>BEd Senior Phase and Further Education and Training Teaching<br>BSc Information Technology Information and Knowledge Systems<br>BSc(Computer Science) Computer Science<br>BA Music Music<br>BSc Actuarial and Financial Mathematics<br>BSc Applied Mathematics<br>BSc Chemistry<br>BSc Environmental and Engineering Geology<br>BSc Environmental Sciences<br>BSc Geography<br>BSc Geoinformatics<br>BSc Geology<br>BSc Mathematical Statistics<br>BSc Mathematics<br>BSc Meteorology<br>BSc Physics |
| <b>Service modules</b>       | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Economic and Management Sciences  |
| <b>Prerequisites</b>         | WTW 114 and WTW 124  |
| <b>Contact time</b>          | 1 tutorial per week, 2 lectures per week   |
| <b>Language of tuition</b>   | Both Afr and Eng   |
| <b>Academic organisation</b> | Mathematics and Applied Maths  |



**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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