



# University of Pretoria Yearbook 2016

## Analysis 310 (WTW 310)

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| <b>Qualification</b>          | Undergraduate   |
| <b>Faculty</b>                | Faculty of Natural and Agricultural Sciences  |
| <b>Module credits</b>         | 18.00   |
| <b>Programmes</b>             | BCom Statistics<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 Education<br>Faculty of Economic and Management Sciences<br>Faculty of Humanities  |
| <b>Prerequisites</b>          | WTW 220   |
| <b>Contact time</b>           | 2 lectures per week, 1 tutorial per week  |
| <b>Language of tuition</b>    | Double Medium   |
| <b>Academic organisation</b>  | Mathematics and Applied Maths   |
| <b>Period of presentation</b> | Semester 1  |

### Module content

Topology of finite dimensional spaces: Open and closed sets, compactness, connectedness and completeness. Theorems of Bolzano-Weierstrass and Heine-Borel. Properties of continuous functions and applications. Integration theory for functions of one real variable. Sequences of functions.



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