

University of Pretoria Yearbook 2019

Analysis 310 (WTW 310)

Qualification Undergraduate

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

Module credits 18.00

Programmes [BCom](#)

[BCom Statistics](#)

[BSc Actuarial and Financial Mathematics](#)

[BSc Applied Mathematics](#)

[BSc Geology](#)

[BSc Mathematical Statistics](#)

[BSc Mathematics](#)

[BSc Physics](#)

Service modules Faculty of Education

Faculty of Economic and Management Sciences

Faculty of Humanities

Prerequisites WTW 220

Contact time 2 lectures per week, 1 tutorial per week

Language of tuition Afrikaans and English are used in one class

Department Mathematics and Applied Mathematics

Period of presentation 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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