

University of Pretoria Yearbook 2017

Real analysis 351 (MAT 351)

Qualification Undergraduate

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

Module credits 15.00

Prerequisites MAT 251 and MAT 262

Contact time 1 discussion class per week, 3 lectures per week

Language of tuition Module is presented in English

Academic organisation Mathematics and Applied Maths

Period of presentation Semester 1

Module content

Topology of finite dimensional spaces: Open and closed sets, sequences, compactness, and completeness. Theorems of Bolzano-Weierstrass and Heine-Borel. Properties of continuous functions and applications. Sequences and series of functions.

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.