



University of Pretoria Yearbook 2020

Axiomatic set theory and mathematical logic 724 (WTW 724)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module content	Axiomatic set theory, ordinals, transfinite induction and recursion, ordinal arithmetic, the axiom of choice, cardinal arithmetic, the continuum hypothesis. Propositional and first order logic. The completeness and compactness theorems. Decidability, Gödel's incompleteness theorems.
Module credits	15.00
Programmes	BScHons Mathematics BScHons Mathematics and Mathematics Education Algebra and Analysis
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 1

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 each student to familiarise himself or herself 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.