



University of Pretoria Yearbook 2018

Stochastic calculus 764 (WTW 764)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module content	Mathematical modelling of Random walk. Conditional expectation and Martingales. Brownian motion and other Lévy processes. Stochastic integration. Ito's Lemma. Stochastic differential equations. Application to finance.
Module credits	15.00
Programmes	BScHons Applied Mathematics BScHons Mathematics BScHons Mathematics and Mathematics Education Algebra and Analysis BScHons Mathematics and Mathematics Education Applied Analysis BScHons Mathematics and Mathematics Education Differential Equations and Modelling BScHons Mathematics of Finance
Prerequisites	WTW 734 or WTW 735
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 2

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