

University of Pretoria Yearbook 2016

Calculus 153 (WTW 153)

Qualification Undergraduate

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

Module credits 8.00

Programmes [BEd Senior Phase and Further Education and Training Teaching](#)

[BSc Extended programme - Mathematical Sciences](#)

[BSc Extended programme - Physical Sciences](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Prerequisites WTW 143

Contact time Foundation Course, 1 tutorial per week, 3 lectures per week

Language of tuition English

Academic organisation Mathematics and Applied Maths

Period of presentation Semester 1

Module content

Differential calculus of a single variable with proofs and applications. The mean value theorem, the rule of L'Hospital. Upper and lower sums, definite and indefinite integrals, the Fundamental theorem of Calculus, the mean value theorem for integrals, integration techniques, with some proofs.

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