

University of Pretoria Yearbook 2023

Precalculus 133 (WTW 133)

Undergraduate

Faculty	Faculty of Natural and Agricultural Sciences
Module credits	8.00
NQF Level	05

Programmes BEd (Intermediate Phase Teaching)

BSc extended programme - Biological and Agricultural Sciences

Service modules Faculty of Education

Faculty of Economic and Management Sciences

BCom Ext prgm students who wish to transfer to BCom Economics or BCom

Investment Mgnmt: 50% for Mathematics in Gr 12. BEd programmes: 50% for Mathematics Gr 12. BSc Ext prgm - Biological and Agricultural Sciences: 50% for

Mathematics in Gr 12.

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

Language of tuition Module is presented in English

Department Mathematics and Applied Mathematics

Period of presentation Semester 1

Module content

Prerequisites

Oualification

Real numbers, elementary set notation, exponents and radicals. Algebraic expressions, fractional expressions, linear and quadratic equations, inequalities. Coordinate geometry: lines, circles. Functions: definition, notation, piecewise defined functions, domain and range, graphs, transformations of functions, symmetry, even and odd functions, combining functions, one-to-one functions and inverses, polynomial functions and zeros. Sequences, summation notation, arithmetic, geometric sequences, infinite geometric series, annuities and instalments. Degrees and radians, unit circle, trigonometric functions, fundamental identities, trigonometric graphs, trigonometric identities, double-angle, half-angle formulae, trigonometric equations, applications.

This module is offered at the Mamelodi Campus to students from the BSc and BCom Extended programmes. At the Groenkloof Campus it is offered to BEd students.

Regulations and rules

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.



The General Academic Regulations (G Regulations) and General Student Rules apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.

University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.