

University of Pretoria Yearbook 2023

Calculus 158 (WTW 158)

FacultyFaculty of Natural and Agricultural SciencesModule credits16.00NQF Level05ProgrammesBEng (Chemical Engineering)BEng (Chemical Engineering)ENGAGEBEng (Civil Engineering)ENGAGEBEng (Civil Engineering)ENGAGEBEng (Civil Engineering)ENGAGEBEng (Computer Engineering)ENGAGEBEng (Computer Engineering)ENGAGEBEng (Computer Engineering)ENGAGEBEng (Electrical Engineering)ENGAGEBEng (Industrial Engineering)ENGAGEBEng (Mutustrial Engineering)ENGAGEBEng (Mechanical Engineering)ENGAGEBEng (Mechanical Engineering)ENGAGEBEng (Metallurgical Engineering)ENGAGEBEng (Mining Engineering)ENGAGEService modulesFaculty of Engineering)Prerequisites60% for Mathematics in Grade 12Contact time1 tutorial per week, 4 lectures per weekLanguage of tuitionModule is presented in EnglishDepartmentMathematics and Applied MathematicsPeriod of presentationSemestr 1	Qualification	Undergraduate
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Language of tuitionModule is presented in EnglishDepartmentMathematics and Applied Mathematics	Prerequisites	60% for Mathematics in Grade 12
Department Mathematics and Applied Mathematics	Contact time	1 tutorial per week, 4 lectures per week
· · · ·	Language of tuition	Module is presented in English
Period of presentation Semester 1	Department	Mathematics and Applied Mathematics
	Period of presentation	Semester 1



Module content

*This module is designed for first-year engineering students. Students will not be credited for more than one of the following modules for their degree: WTW 158, WTW 114, WTW 134, WTW 165. Introduction to vector algebra. Functions, limits and continuity. Differential calculus of single variable functions, rate of change, graph sketching, applications. The mean value theorem, the rule of L'Hospital. Indefinite integrals, integration.

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.