

University of Pretoria Yearbook 2025

Statistics 110 (STK 110)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	13.00
NQF Level	05
Programmes	BAdmin specialising in Public Management and International Relations
	BCom 3-year programme
	BCom 4-year programme
	BCom in Accounting Sciences
	BCom specialising in Agribusiness Management
	BCom specialising in Business Management
	BCom specialising in Economics
	BCom specialising in Financial Management Sciences
	BCom specialising in Human Resource Management
	BCom specialising in Information Systems
	BCom specialising in Investment Management
	BCom specialising in Law
	BCom specialising in Marketing Management
	BCom specialising in Statistics and Data Science
	BCom specialising in Supply Chain Management
	Bachelor of Information Technology in Information Systems [BIT]
	Bachelor of Town and Regional Planning [BTRP]
	BSc in Computer Science
	BSc in Information Technology in Information and Knowledge Systems
	BA specialising in Philosophy, Politics and Economics
	Bachelor of Arts [BA] 3-year programme
	Bachelor of Consumer Science in Food Retail Management [BConSci]
	Bachelor of Consumer Science in Hospitality Management [BConSci]
	Bachelor of Consumer Science specialising in Clothing Retail Management [BConSci]

[BSc in Geoinformatics](#)

[BSc in Geoinformatics 4-year programme](#)

[BSc in Meteorology](#)

[BSc in Meteorology 4-year programme](#)

[BScAgric in Agricultural Economics in Agribusiness Management](#)

Service modules

Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Faculty of Humanities

Faculty of Natural and Agricultural Sciences

Prerequisites

At least 5 (60-69%) in Mathematics in the Grade 12 examination. Candidates who do not qualify for STK 110 must register for STK 113 and STK 123

Contact time

3 lectures per week, 1 practical per week, 1 tutorial per week

Language of tuition

Module is presented in English

Department

Statistics

Period of presentation

Semester 1

Module content

PART A: Mathematical concepts for the business student: Statistical applications of quantitative techniques. Systems of linear equations: solving and application. Differentiation: Rules and application using the rules. Optimisation, linear functions, non-linear functions, Integration: Rules and application using the rules, Marginal and total functions, Stochastic and deterministic variables in a statistical and practical context: producers' and consumers' surplus. Linear programming. Matrix algebra. Limits and continuity.

PART B: Descriptive statistics: Sampling and the collection of data; frequency distributions and graphical representations. Descriptive measures of location and dispersion. Probability. Introductory probability theory and theoretical distributions. Statistical and mathematical concepts are demonstrated and interpreted through Excel (practical coding) and simulation within a data science framework.

Exam entrance requires a subminimum of 40% in both Part A and Part B. To pass the module a student has to pass both Part A and Part B.

General Academic Regulations and Student Rules

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. The G Regulations are updated annually and may be amended after the publication of this information.

Regulations, degree requirements and information

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

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 (HEQSF) 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.