

University of Pretoria Yearbook 2025

Medical biostatistics 700 (MBS 700)

Qualification	Postgraduate
Faculty	Faculty of Health Sciences
Module credits	20.00
NQF Level	08
Programmes	BScHons in Cell Biology
	BScHons in Chemical Pathology
	BScHons in Clinical Pharmacology
	BScHons in Haematology
	BScHons in Human Cell Biology
	BScHons in Human Histology
	BScHons in Human Physiology
	BScHons in Macro-anatomy
	BScHons in Medical Criminalistics
	BScHons in Medical Immunology
	BScHons in Medical Microbiology
	BScHons in Medical Nuclear Science
	BScHons in Medical Oncology
	BScHons in Medical Physics
	BScHons in Medical Virology
	BScHons in Neuro-anatomy
	BScHons in Physical Anthropology
	BScHons in Radiation Oncology
	BScHons in Reproductive Biology
	BScHons in Reproductive Biology option Andrology
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Statistics
Period of presentation	Semester 1

Module content

The role of statistics and the data analysis process, collecting data sensibly, graphical methods for describing data, numerical methods for describing data, summarizing bivariate data, probability, random variables and probability distributions, sampling variability and sampling distributions, estimation using a single sample, hypothesis testing using a single sample, comparing two populations or treatments, the analysis of categorical data and goodness-of-fit tests, simple linear regression and correlation: inferential methods, multiple regression analysis, analysis of variance, nonparametric (distribution-free) statistical methods. This course is designed as a statistics building block for a non-statistics major postgraduate student at master's level.

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.