

# University of Pretoria Yearbook 2023

## Medical biostatistics 700 (MBS 700)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	Faculty of Health Sciences
<b>Module credits</b>	20.00
<b>NQF Level</b>	08
<b>Programmes</b>	BScHons (Anatomy)
	BScHons (Cell Biology)
	BScHons (Chemical Pathology)
	BScHons (Comparative Anatomy)
	BScHons (Developmental Biology)
	BScHons (Haematology)
	BScHons (Human Cell Biology)
	BScHons (Human Histology)
	BScHons (Human Physiology)
	BScHons (Macro-anatomy)
	BScHons (Medical Criminalistics)
	BScHons (Medical Immunology)
	BScHons (Medical Microbiology)
	BScHons (Medical Nuclear Science)
	BScHons (Medical Oncology)
	BScHons (Medical Physics)
	BScHons (Medical Virology)
	BScHons (Neuro-anatomy)
	BScHons (Pharmacology)
	BScHons (Physical Anthropology)
	BScHons (Radiation Oncology)
	BScHons (Reproductive Biology)
	BScHons (Reproductive Biology) (Andrology)
<b>Contact time</b>	1 lecture per week

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**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.

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**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.