



University of Pretoria Yearbook 2019

Biometry 120 (BME 120)

Qualification Undergraduate

Faculty [Faculty of Economic and Management Sciences](#)

Module content

Simple statistical analysis: Data collection and analysis: Samples, tabulation, graphical representation, describing location, spread and skewness. Introductory probability and distribution theory. Sampling distributions and the central limit theorem. Statistical inference: Basic principles, estimation and testing in the one- and two-sample cases (parametric and non-parametric). Introduction to experimental design. One- and twoway designs, randomised blocks. Multiple statistical analysis: Bivariate data sets: Curve fitting (linear and non-linear), growth curves. Statistical inference in the simple regression case. Categorical analysis: Testing goodness of fit and contingency tables. Multiple regression and correlation: Fitting and testing of models. Residual analysis. Computer literacy: Use of computer packages in data analysis and report writing.

Module credits 16.00

Programmes [BSc Information and Knowledge Systems](#)

[BSc Biochemistry](#)

[BSc Biological Sciences](#)

[BSc Biotechnology](#)

[BSc Chemistry](#)

[BSc Culinary Science](#)

[BSc Ecology](#)

[BSc Entomology](#)

[BSc Environmental Sciences](#)

[BSc Extended programme - Biological and Agricultural Sciences](#)

[BSc Extended programme - Physical Sciences](#)

[BSc Food Science](#)

[BSc Genetics](#)

[BSc Geography](#)

[BSc Human Genetics](#)

[BSc Human Physiology](#)

[BSc Human Physiology, Genetics and Psychology](#)

[BSc Medical Sciences](#)



BSc Meteorology

BSc Microbiology

BSc Nutrition

BSc Plant Science

BSc Zoology

BScAgric Animal Science

BScAgric Applied Plant and Soil Sciences

BScAgric Plant Pathology

BVSc

Service modules

Faculty of Engineering, Built Environment and Information Technology

Faculty of Natural and Agricultural Sciences

Faculty of Veterinary Science

Prerequisites

At least 4 (50-59%) in Mathematics in the Grade 12 examination, or at least 50% in both Statistics 113, 123

Contact time

1 practical per week, 4 lectures per week

Language of tuition

Module is presented in English

Department

Statistics

Period of presentation

Semester 2

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of each student to familiarise himself or herself well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.