



University of Pretoria Yearbook 2021

Biometry 120 (BME 120)

Qualification Undergraduate

Faculty Faculty of Economic and Management Sciences

Module credits 16.00

NQF Level 05

Programmes BIT Information Systems

BSc Information and Knowledge Systems

BSc Biochemistry

BSc Biological Sciences

BSc Biotechnology

BSc Chemistry

BSc Culinary Science

BSc Ecology

BSc Entomology

BSc extended programme - Biological and Agricultural Sciences

BSc extended programme - Physical Sciences

BSc Food Science

BSc Genetics

BSc Geography and Environmental Science

BSc Human Genetics

BSc Human Physiology

BSc Human Physiology, Genetics and Psychology

BSc Medical Sciences

BSc Meteorology

BSc Microbiology

BSc Nutrition

BSc Physics

BSc Plant Science

BSc Zoology



BScAgric Agricultural Economics and Agribusiness Management

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

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.

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