



# University of Pretoria Yearbook 2022

## 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 (Meteorology)

BSc (Biochemistry)

BSc (Biological Sciences)

BSc (Biotechnology)

BSc (Chemistry)

BSc (Culinary Science)

BSc (Ecology)

BSc (Entomology)

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 (Microbiology)

BSc (Nutrition)

BSc (Physics)

BSc (Plant Science)

BSc (Zoology)

BSc extended programme - Biological and Agricultural Sciences

BSc extended programme - Physical Sciences



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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