

# University of Pretoria Yearbook 2018

## Statistics 120 (STK 120)

**Qualification** Undergraduate

**Faculty** Faculty of Economic and Management Sciences

**Module credits** 13.00

**Programmes** BAdmin Public Management and International Relations

BCom

BCom Agribusiness Management

BCom Business Management

BCom Economics

BCom Entrepreneurship

BCom Financial Sciences

BCom Human Resource Management

BCom Informatics Information Systems

BCom Investment Management

BCom Law

BCom Marketing Management

BCom Statistics

BCom Supply Chain Management

BEd Senior Phase and Further Education and Training Teaching

BSc Computer Science

BSc Information and Knowledge Systems

BTRP

BSocSci Philosophy, Politics and Economics

BSc Geoinformatics

BScAgric Agricultural Economics and Agribusiness Management

**Service modules** Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Faculty of Humanities

Faculty of Natural and Agricultural Sciences

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<b>Prerequisites</b>	STK 110 GS or both STK 113 GS and STK 123 GS or both WST 133 and WST 143 or STK 133 and STK 143
<b>Contact time</b>	1 practical per week, 1 tutorial per week, 3 lectures per week
<b>Language of tuition</b>	Separate classes for Afrikaans and English
<b>Department</b>	Statistics
<b>Period of presentation</b>	Semester 2

### Module content

Multivariate statistics:

Analysis of variance, categorical data analysis, distribution-free methods, curve fitting, regression and correlation, the analysis of time series and indices.

Statistical and economic applications of quantitative techniques:

Systems of linear equations: drafting, matrices, solving and application. Optimisation; linear functions (two and more independent variables), non-linear functions (one and two independent variables). Marginal and total functions. Stochastic and deterministic variables in statistical and economic context: producers' and consumers' surplus, distribution functions, probability distributions, probability density functions. Identification, use, evaluation, interpretation of statistical computer packages and statistical techniques.

This module is also presented as an anti-semester bilingual module.

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