



# University of Pretoria Yearbook 2019

## Statistics 120 (STK 120)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Economic and Management Sciences
<b>Module credits</b>	13.00
<b>Programmes</b>	BAdmin Public Management and International Relations BCom BCom Agribusiness Management BCom Business Management BCom Economics 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
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Humanities Faculty of Natural and Agricultural Sciences
<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



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**Contact time** 1 practical per week, 3 lectures per week, 1 tutorial per week

**Language of tuition** Module is presented in English

**Department** Statistics

**Period of presentation** 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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