



# University of Pretoria Yearbook 2016

## Statistics 123 (STK 123)

**Qualification** Undergraduate

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

\*On its own, STK 113 and 123 will not be recognized for degree purposes, but exemption will be granted for STK 110.

**Module content**

Optimisation techniques with economic applications: Data transformations and relationships with economic applications, operations and rules, linear, quadratic, exponential, hyperbolic and logarithmic functions; systems of equations in equilibrium, system of linear inequalities, solving of linear programming problems by means of the graphical and extreme point methods. Applications of differentiation and integration in statistic and economic related problems: the limit of a function, continuity, rate of change, the derivative of a function, differentiation rules, higher order derivatives, optimisation techniques, the area under a curve and applications of definite integrals. Probability and inference: Theoretical distributions. Sampling distributions. Estimation theory and hypothesis testing of sampling averages and proportions (one-sample and two-sample cases). Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques. The weekly one hour practical is presented during the last seven weeks of the semester.

**Module credits** 12.00

**Programmes**

[BAdmin Public Management](#)

[BCom Business Management](#)

[BCom Communication Management](#)

[BCom Economic and Management Sc](#)

[BCom Entrepreneurship](#)

[BCom Human Resource Management](#)

[BCom Informatics: Information Systems](#)

[BCom Law](#)

[BCom Marketing Management](#)

[BCom Option: Supply Chain Management](#)

[BCom Recreation and Sports Management](#)

[BEd Senior Phase and Further Education and Training Teaching](#)

[BA Option: Sport and Recreation Management](#)

[BConsumer Science Clothing: Retail Management](#)

[BConsumer Science Foods: Retail Management](#)



BConsumer Science Hospitality Management

BScAgric Agricultural Economics: Agribusiness Management

**Service modules**

Faculty of Education

Faculty of Humanities

Faculty of Natural and Agricultural Sciences

**Prerequisites**

STK 113 GS

**Contact time**

1 tutorial per week, 1 practical per week, 3 lectures per week

**Language of tuition**

Both Afr and Eng

**Academic organisation**

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.