

# University of Pretoria Yearbook 2018

## Statistics 310 (STK 310)

**Qualification** Undergraduate

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

**Module credits** 25.00

**Programmes** [BCom](#)

[BCom Economics](#)

[BCom Informatics Information Systems](#)

[BCom Law](#)

[BCom Statistics](#)

[BScAgric Agricultural Economics and Agribusiness Management](#)

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

Faculty of Natural and Agricultural Sciences

**Prerequisites** STK 210, STK 220

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

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

**Department** Statistics

**Period of presentation** Semester 1

### Module content

Regression analysis: simple and multiple regression; nonlinear regression; correlation and the use of dummy variables. Multivariate distributions: normal, multinomial and poisson distribution. Linear combinations of normal variables. Analysis of variance and covariance. Regression analysis extensions: heteroscedasticity, serial correlation and lag structures. Applications of matrices, differentiation and integration in the economic and management sciences. Evaluation of simple economic models. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

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