

# University of Pretoria Yearbook 2021

## Statistics 220 (STK 220)

**Qualification** Undergraduate

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

**Module credits** 20.00

**NQF Level** 06

**Programmes** [BCom](#)

[BCom Economics](#)

[BCom Informatics Information Systems](#)

[BCom Investment Management](#)

[BCom Law](#)

[BCom Statistics and Data Science](#)

[BIT Information Systems](#)

[BSc Computer Science](#)

[BSc Information and Knowledge Systems](#)

[BSocSci Philosophy, Politics and Economics](#)

[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 GS

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

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

**Department** Statistics

**Period of presentation** Semester 2

### Module content

Multivariate probability distributions. Sampling distributions and the central limit theorem. Frequentist and Bayesian inference. Statistical learning and decision theory. Simulation techniques enhancing statistical thinking. Supervised learning: linear regression, estimation and inference. Non-parametric modelling. Supporting mathematical concepts. Statistical algorithms. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.



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