# Statistics 220 (STK 220)

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| **Qualification** | Undergraduate |
| **Faculty** | Faculty of Economic and Management Sciences |
| **Module credits** | 20.00 |
| **Programmes** | BCom |
| | BCom Agribusiness Management |
| | BCom Economics |
| | BCom Informatics Information Systems |
| | BCom Investment Management |
| | BCom Law |
| | BCom Statistics |
| | BCom Statistics and Data Science |
| | BIT Information Systems |
| | 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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