

# University of Pretoria Yearbook 2022

## Statistics 220 (STK 220)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Economic and Management Sciences</a>
<b>Module credits</b>	20.00
<b>NQF Level</b>	06
<b>Programmes</b>	<a href="#">BCom (Informatics) Information Systems</a>
	<a href="#">BCom (Law)</a>
	<a href="#">BCom (Statistics and Data Science)</a>
	<a href="#">BCom</a>
	<a href="#">BCom (Economics)</a>
	<a href="#">BCom (Investment Management)</a>
	<a href="#">BIT (Information Systems)</a>
	<a href="#">BSc (Computer Science)</a>
	<a href="#">BSc (Information and Knowledge Systems)</a>
	<a href="#">BSocSci (Philosophy, Politics and Economics)</a>
	<a href="#">BSc (Meteorology)</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Humanities
	Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	STK 210 GS
<b>Contact time</b>	1 practical per week, 3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Statistics
<b>Period of presentation</b>	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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