

# University of Pretoria Yearbook 2021

## Mathematical statistics 121 (WST 121)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Economic and Management Sciences
<b>Module credits</b>	16.00
<b>NQF Level</b>	05
<b>Programmes</b>	BCom
	BCom Econometrics
	BCom Statistics and Data Science
	BSc Computer Science
	BSc Information and Knowledge Systems
	BSc Actuarial and Financial Mathematics
	BSc Applied Mathematics
	BSc Chemistry
	BSc extended programme - Mathematical Sciences
	BSc Mathematical Statistics
	BSc Mathematics
	BSc Meteorology
	BSc Physics
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Economic and Management Sciences
	Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	WST 111 GS or WST 133, 143 and 153
<b>Contact time</b>	1 practical per week, 4 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

Sampling distributions and the central limit theorem. Statistical inference: Point and interval estimation. Hypothesis testing with applications in one and two-sample cases. Introductory methods for: Linear regression and correlation, analysis of variance, categorical data analysis and non-parametric statistics. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

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