



# University of Pretoria Yearbook 2020

## Mathematical statistics 121 (WST 121)

**Qualification** Undergraduate

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

**Module credits** 16.00

**Programmes** [BCom](#)

[BCom Econometrics](#)

[BCom Statistics](#)

[BCom Statistics and Data Science](#)

[BSc Computer Science](#)

[BSc Information and Knowledge Systems](#)

[BSc Actuarial and Financial Mathematics](#)

[BSc Applied Mathematics](#)

[BSc Extended programme - Mathematical Sciences](#)

[BSc Mathematical Statistics](#)

[BSc Mathematics](#)

[BSc Meteorology](#)

[BSc Physics](#)

**Service modules** [Faculty of Engineering, Built Environment and Information Technology](#)

[Faculty of Economic and Management Sciences](#)

[Faculty of Natural and Agricultural Sciences](#)

**Prerequisites** WST 111 GS or WST 133, 143 and 153

**Contact time** 1 practical per week, 4 lectures per week

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

**Department** Statistics

**Period of presentation** 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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