

## University of Pretoria Yearbook 2021

## Statistics 122 (STC 122)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	13.00
NQF Level	05
Programmes	BCom Informatics Information Systems
	BCom Investment Management
	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
Prerequisites	At least a 60% in STK 110 or an average of 60% for either (1) WST 133, WST 143, WST 153; (2) STK 113, STK 123, STK 121; (3) STK 133, STK 134, STK121; (4) WST 133, WST 143, STK 121 (An aegrotat exam is available to students who obtained 50%-59%)
<b>Contact time</b>	1 practical per week, 1 tutorial per week, 3 lectures per week
Language of tuition	Module is presented in English
Department	Statistics

## **Period of presentation** Semester 2

## **Module content**

Inferential concepts. Experimental and observational data. Measures of association, uncertainty and goodness of fit. Sampling error and accuracy of estimation. Introduction to linear regression, reduction of variation due to regression. Conditional distributions of residuals. Simulation based inference: conditional means and prediction intervals. Bivariate data visualisation. Supporting mathematical concepts. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

This module is also presented as a summer school for students who initially elected and passed STK 120 with a final mark of at least 60% and then decides to further their studies in statistics as well as for students who achieved a final mark of between 40% - 49% in STC 122 during semester 2.

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General Regulations (G Regulations) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the General Rules section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.