

STATISTICS AND MODELLING

MAS 301

*This **is** an approved subject for University Entrance*

This course is for the very able Mathematician who succeeded in the MAT 201 course.

Some class time is spent in the computer suite.

This course can be taken along with MAC301.

This course cannot be undertaken in conjunction with MAT302.

INTERNAL ASSESSMENT

Achievement/ Unit Standards		Title	No of Credits
AS 3.1	90641	Determine the trend for time series data	3
AS 3.5	90645	Complete a statistical investigation involving bi-variate data	3
US	5258	Use expected values to solve problems	2
US	5259	Use probability models to solve problems	3
US	5262	Use linear systems to solve problems	2

EXTERNAL ASSESSMENT

Achievement/ Unit Standards		Title	No of Credits
AS 3.2	90642	Calculate confidence intervals for population parameters	3
A S 3.3	90643	Solve probability problems	3
AS 3.4	90644	Solve non-linear equations and systems of three linear equations	4
AS 3.6	90646	Use probability distribution models to solve problems	4

Total number of credits offered	27
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Suggested Pre-requisites	:	Minimum requirement is Achievement in two Level 2 internal assessments and Achievements in two Level 2 external assessments [or permission from HOD]
Course costs/special equipment needed	:	Workbook \$25 Graphics Calculator is essential
Contact person	:	Mrs C Lavery