

RECOMMENDED LEVEL OF ATTAINMENT

From 12MTA – four of the seven Standards, including Probability.

From 12MTB – Success in the following Standards is necessary: Conducting an experiment; Probability; Inference.

All cases are reviewed on their merits by the HOD.

INTRODUCTION

A course for those interested in the biological and social sciences, medicine, commerce and administration – any field where collection, analysis and interpretation of data is important. This course can be taken with 13CAL.

CONTENT

Probability methods – Probability distributions

Using statistical methods – Analysing data.

SKILLS

- Develop problem solving and communication skills
- Become familiar with modern statistical skills,

especially computer-based analytical tools

- Develop the ability to conduct statistical experiments and to draw valid conclusions from raw data
- Recognise and produce the most suitable form in which to present information
- Become familiar with the use of specific statistical software.

NOTE

A considerable amount of the class work and all the internal assessment is computer-based. It is preferable that students have their own device which can run Windows OS 7 or 8, in order to run the software that is used. Therefore it is strongly recommended that have their own Windows device as the availability of school computers will be limited.

FUTURE PATHWAYS

Careers in Social Sciences, Medicine and Biological sciences, Commerce

NCEA STANDARDS – 13STA

Not all standards will necessarily be assessed.

	Level	Credits	UE Rdg.	UE Wrtg.	
External					
91585 v2	3	4	no	no	Mathematics and Statistics 3.13 - Apply probability concepts in solving problems
91586 v2	3	4	no	no	Mathematics and Statistics 3.14 - Apply probability distributions in solving problems
Internal					
91581 v2	3	4	no	no	Mathematics and Statistics 3.9 - Investigate bivariate measurement data
91582 v2	3	4	no	no	Mathematics and Statistics 3.10 - Use statistical methods to make a formal inference
91583 v2	3	4	no	no	Mathematics and Statistics 3.11 - Conduct an experiment to investigate a situation using experimental design principles