Changing lives through learning

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Statistical Methods

Graded Unit Reference Number: GA33MTH19

Ungraded Unit Reference Number: UA33MTH19

Module: Mathematics

Level: Three (3)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Units barred for selection against this unit:

- Statistical Methods and Distributions (GA36MTH31 / UA36MTH31)

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand methods of data collection and handling	1.1 Describe methods for data collection
	1.2 Describe the main methods by which data is sampled
	1.3 Explain the difference between biased and unbiased data and suggest reasons for bias
	1.4 Determine the mean, mode and median of a set of data
	1.5 Determine whether data has positive, negative or zero skew
2. Understand the use of the inter-quartile range	2.1 Draw box plots to determine inter-quartile range
	2.2 Interpret a box plot to comment on skew in data
3. Understand the use of standard deviation and standard error	3.1 Calculate the standard deviation of a data set

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	3.2	Use the standard deviation to determine the standard error
	3.3	Use tables to determine the 95% confidence interval of a data set
4. Understanding the use of the chi-squared distribution	4.1	For a given problem and set of data apply an appropriate inferential statistical test to accept or reject the null hypothesis
	4.2	Draw conclusions and interpretations referring to the original problem

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