THE UNIVERSITY of ADELAIDE

COLLEGE

Statistics

Aims

This course is designed to introduce students to the study of statistics and prepare for university statistics encountered in both commerce and computer science degree programs. It will provide students with a basic knowledge to understand and know how to use statistics.

Learning outcomes

On completing this course, students will be able to:

> Apply a variety of statistical techniques to analyse and understand data

> Interpret in plain language and comment on these statistical techniques

> Interpret computer output to perform statistical techniques

> Describe the importance of variability to the study of statistics.

Required materials

> Course booklet supplied by The University of Adelaide College

> Basic calculator

Course content

The following topics will be covered:

> Introduction to basic statistical terms

> Graphical descriptive measures

> Numerical descriptive measures

> Index numbers

> Probability

> Probability distributions/ expected values

> Normal distributions

> Sampling distributions

> Confidence intervals

> Hypothesis testing

> Simple linear regression and correlation

> Time series analysis

Further details of the course content will be advised in the first week of classes

Contact hours

4 hours per week

Assessment

Indicative weightings for each assessment item are outlined below

Assessment	Weighting
Assignment 1	5%
Assignment 2	5%
Exercise	5%
Mid-semester test	15%
Final exam	70%

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