

STATISTICS

AS & A Level

This subject will suit you if:

- You want to develop skills to help you construct statistical models of real world situations and draw accurate conclusions from numerical data.
- You are a numerate student who is happy working with basic algebra and formulae.
- You want to develop your mathematical skills to support your other subjects, but don't like the idea of more equations, graphs and trigonometry!



Subject Combinations

Accounting, Biology,
Business Studies, Geography,
Sociology, Psychology

Additional Entry Requirements

A grade B or above in GCSE Mathematics. If you have a C at the higher tier we will consider you, but you will have to demonstrate that you are confident working with formulae at enrolment.



What You'll Study

You'll learn different statistical models and techniques that will assist you in addressing problems such as:

- Can we use weather records from previous months to predict the effect on the profit level of a shop if it rains?
- Over a long period of time an average of three accidents per month occur at a road junction. In August there are six accidents; is this sufficient evidence to believe the accident rate has increased?
- A test for a disease is positive 95% of the time if the person has the disease and 3% of the time if they don't. How good a test is this?

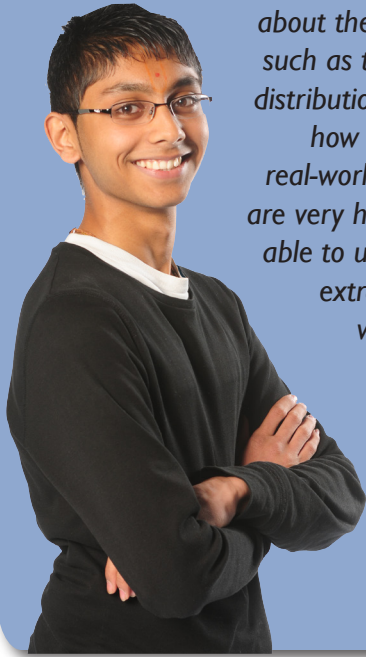
The course is made up of three units for AS and a further three to complete the A Level.



Vikesh Hirani

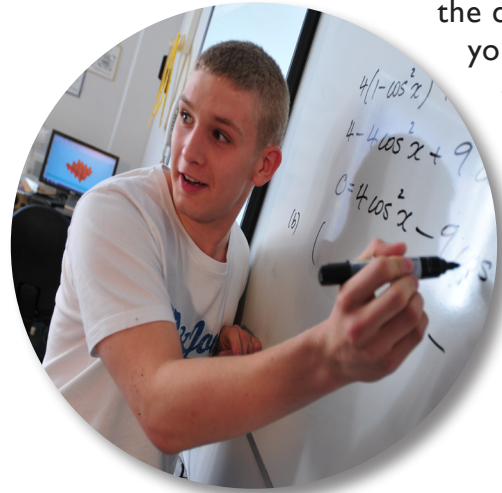
“The Statistics course was one of the reasons I decided to come to Oldham Sixth Form College - I wouldn't have been able to study it elsewhere.

Statistics is a very practical course because it involves looking at numerical and statistical data and using various methods such as hypothesis tests and regressions analysis to deduce conclusions. I have enjoyed learning about the various distributions - such as the normal or binomial distributions - as I can then see how they can be applied to real-world situations. The tutors are very helpful and I have been able to use the workshop to do extra revision and get help when I have needed it.”



All Biology, Geography, Psychology, Sociology degree courses will include 'research methods' (i.e. statistics) components. Business and Economics are all about using facts and figures to make

the correct decisions. If you plan to study any of these subjects at university you will be expected to be comfortable working with facts and figures so a qualification in Statistics will strongly support your application.



End of Year Project

At the end of the year you will have the opportunity to plan, conduct and present an extended piece of work (on a topic of your choice) to put into practice all the statistical skills and techniques that you have learnt throughout the year.

Examples from the past include investigating people's ability to identify particular colours and determining if there is a link between the type of subjects students study and if they plan to have children in the future.



Jo Boddie

“I decided to study Statistics because I enjoyed Maths at school. I enjoy each of my Statistics lessons because I learn something new each time. I feel that my tutor is very helpful and I can always ask for help when I don't understand something. In the future I plan to pursue a career in midwifery and I feel that an AS-level in Statistics will show universities and employers the mathematical ability that I have.”

