Statistics - A Level

An exciting opportunity for students who are interested in exploring the fascinating world of data analysis and probability.

With the increasing importance of statistics in our everyday lives, studying A Level Statistics has never been more relevant or valuable. Our course will equip students with the essential knowledge and skills required to confidently navigate through the ever-evolving field of statistics and to make informed decisions based on data-driven insights.

The Edexcel specification covers a wide range of topics, including probability, statistical distributions, hypothesis testing, correlation, and regression analysis. These topics are all essential components of the modern data analysis toolbox, and our course will teach students how to use them effectively to draw meaningful conclusions from data.

The course includes a mix of classroom-based learning, hands-on exercises, and independent study, all designed to provide students with the skills and knowledge needed to excel in the field of statistics.

This course is available for international students, if you are applying as an international student please click here.

WHAT WILL I STUDY?

Modules include:

Numerical measures, graphs and diagrams

- Probability
- Population and samples
- Introduction to probability distributions
- Binomial distribution
- Normal distribution
- Correlation and linear regression
- Bayes' theorem
- Probability distributions
- Experimental design
- Exponential and Poisson distributions
- Correlation and linear regression
- Introduction to hypothesis testing
- Contingency tables
- One and two sample non-parametric tests

Start Date: 2 September 2024
Duration: 2 Years
Attendance: Full Time
Location: Angel Sixth Form College

- Experimental design
- Sampling, estimates and resampling
- Hypothesis testing, significance testing, confidence intervals and power
- Hypothesis testing for 1 and 2 samples
- Paired tests
- Goodness of fit
- Analysis of variance
- Effect size

Statistical Enquiry Cycle (Application of Statistics Knowledge)

The Statistical Enquiry Cycle (SEC) where students apply the knowledge and techniques outlined in this section within the framework of the five stages:

- Initial planning
- Data collection
- Data processing and presentation
- Interpretation of results
- Evaluation and review.

WHAT WILL I NEED?

You will need:

- Grade 6 or above in GCSE Maths
- Grade 5 or above, and at least one grade 6 or above, in GCSE English Language plus one other written subject, such as History, Geography, Humanities, English Literature, Business, Media Studies, Religious Studies, Drama and Film Studies
- Two further GCSEs at grade 4 or above

When applying for an A Level programme at City and Islington, please refer to the general entry requirements on our A Level Courses page as well as the subject-specific details listed above.

HOW WILL I BE ASSESSED?

- Final exam: 3 papers
- Paper 1 and Paper 2 – Pure Statistics
- Paper 3: Statistical Enquiry Cycle Paper -Scenario Application

WHAT WILL IT COST?

AGED 16-18

If you will be aged 16, 17 or 18 on 31st August prior to the start date of your course and you have the legal right to remain in the UK for the duration of your programme then your study with us will be free. Please see here for the documents you will need to show us.

Start Date: 2 September 2024
Duration: 2 Years
Attendance: Full Time
Location: Angel Sixth Form College

Some courses will have other associated costs, such as for specialist materials and trips. Many of our students are eligible for financial support, see here for details.

WHAT CAN I DO AFTER?

This is a new course and is useful if students are thinking of going into data science. It also is extremely beneficial if students are thinking of doing a social science or humanities subject at university such as:

- Psychology
- Sociology
- Geography
- Economics
- Political Science

Start Date: 2 September 2024
Duration: 2 Years
Attendance: Full Time
Location: Angel Sixth Form College

Ofsted
Good
Provider

Capital City
College Group

www.capitalccg.ac.uk