

GREAT BARR

A SPECIALIST SCIENCE COLLEGE



ACADEMY

IGNITING

POTENTIAL



BUSINESS, COMPUTING AND LAW

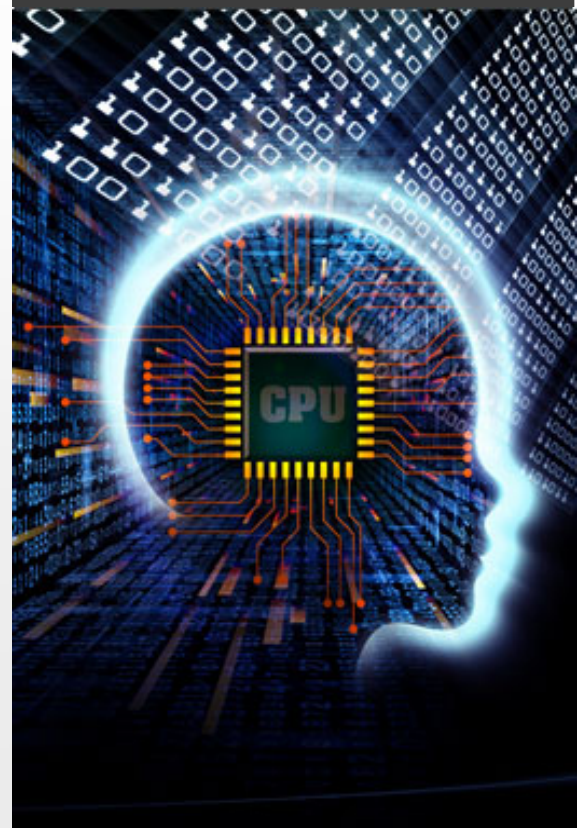


Curriculum Intention

We aim to provide our pupils with an enjoyable learning experience where they get the opportunity to take part in a variety of activities and projects which help them to fully grasp the subjects they study within the department. We focus on a vigorous and continuous quality education that offers students the opportunities to master the knowledge, applications, and attitudes to succeed in school, in life and in the workplace.

Engagement is paramount. Pupils need to look forward to their lessons with staff who are enthusiastic and passionate about Business, Computer Science & IT and Law. The department can offer qualifications that are accessible and engaging for all and equip students with the skills that will help them to achieve what they want out of life and ignite an interest in technology and innovation.

We strive to promote academic excellence, mutual respect and a sense of community within a vibrant, purposeful working department enabling all individuals to develop their talents and enjoy their experience of Business, Computing and Law. To participate in today's society as prepared citizens, informed consumers and effective workers, Business and Computing become increasingly important for all students. To be at the forefront of using technology to engage and encourage students further develop their learning skills.



BUSINESS, COMPUTING AND LAW

CONTACT US

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COMPUTING

KS3

KS3 Computing curriculum Aims

- To develop, maintain and stimulate students' curiosity, interest and enjoyment in Information Technology.
- To develop appropriate flexible Information Technology skills students may use across the Curriculum.
- To make Information Technology a natural tool for all members of the school to use and to allow them to integrate it into their daily activities.

Year 7, 8 & 9 Computing

In years 7, 8 and 9 students follow a course which has a diverse range of topics that includes exploring online safety which increases students' awareness of the issues surrounding cyberbullying, online grooming, social media and sexting and image sharing to developing computational thinking skills and programming using a variety of software.

Extra-curricular Opportunities

We aim to provide students with as many opportunities to showcase their abilities by enabling them to access a variety of challenges and gain awards in recognition of their efforts. Student in KS3 compete with others in the country and internationally to showcase their computational thinking skills with the Bebras Challenge. They are all, also completing The Inspiring Digital Enterprise Award, known as iDEA which is an international programme that helps students to develop digital, enterprise and employability skills. Through a series of online challenges, students win career-enhancing badges, unlock new opportunities and, ultimately, gain an industry-recognised Award that helps them stand out from the crowd.

Contact

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COMPUTER SCIENCE & IT

KS4 & KS5

Curriculum aims

The National Curriculum aims for computing ensure that all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology

Enrichment

To raise the profile of the subject, we aim to focus on using a range of computing gadgets for after schools' clubs e.g. Raspberry Pis, Micro:bits. The department is also further planning to encourage students to go on educational visits to events and museums to engage and encourage students to pursue their computing careers. There is also the potential to use guest speakers e.g. Google, Microsoft, to motivate and showcase new classroom technology. Trips - KS4/5 Disney Land Paris for a conference about Business (you can do the same for CS). KS3 Trips for CS - Bletchley Park - Code Breaking

Contact

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COMPUTER SCIENCE & IT

KS4 & KS5

KS4

List of Topics Covered

GCSE Computer Science
3 hours a week

Year 10 & Year 11

Component 01: Computer Systems (1 hour and 30 minutes — Written paper)

Systems Architecture • Memory • Storage • Wired and wireless networks • Network topologies, protocols and layers • System security • System software • Ethical, legal, cultural and environmental concerns

Component 02: Computational thinking, algorithms and programming(1 hour and 30 minutes — Written paper)

• Algorithms • Programming techniques • Producing robust programs • Computational logic • Translators and facilities of languages • Data representation

Component 03: Programming Project (20 timetabled hours)

• Programming techniques • Analysis • Design • Development • Testing and evaluation and conclusions

Cambridge Nationals in Creative iMedia
3 hours a week

Year 1:

Unit 1: Pre-production skills (Compulsory Units)

Unit 2: Creating digital graphics

Year 2:

Choose 2 of the following options:

Unit 3: Storytelling with a comic strip

Unit 4: Creating a digital animation

Unit 5: Creating interactive multimedia products

Unit 6: Digital photography

Contact

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COMPUTER SCIENCE & IT

KS5

KS5

List of Topics Covered

AS/A Level

Computer Science 2 year course

6 hours a week

Component 01: Computer Systems (1 hour and 30 minutes — Written paper)

Systems Architecture • Memory • Storage • Wired and wireless networks • Network topologies, protocols and layers • System security • System software • Ethical, legal, cultural and environmental concerns

Component 02: Algorithms and Programming (1 hour and 30 minutes — Written paper)

• Algorithms • Programming techniques • Producing robust programs • Computational logic • Translators and facilities of languages • Data representation

Component 03: Programming Project (20 timetabled hours)

• Programming techniques • Analysis • Design • Development • Testing and evaluation and conclusions

Contact

Director of Business Studies & Computing — Mr K Ali

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COMPUTER SCIENCE & IT

KS5

KS5

List of Topics Covered

BTEC Nationals in Information Technology

6 hours a week

Year 1:

Unit 3: Using Social Media in Business

Assignment 1: how businesses use social media

A: Evaluating the use of social media in business.

Assignment 2: Using Social Media In Business

BC: Evaluating the use of social media in business.

Unit 2: Creating Systems to Manage Information (Compulsory Units — Controlled Assessment)

Teaching and Learning (Covering AO1, AO2, AO3, AO4, AO5)

Year 2

Unit 1: Information Technology Systems (Compulsory Units — Exam)

Teaching and Learning (Covering AO1, AO2, AO3, AO4, AO5)

Year 2:

Unit 5: Data Modelling (Coursework)

Assignment 1

A: Investigate data modelling and how it can be used in the decision-making process

Assignment 2

B: Design a data model to meet client requirements

Assignment 3

C: Develop a data model to meet client requirements

Contact

Director of Business Studies & Computing — Mr K Ali

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BUSINESS

KS4 & KS5

We aim to deliver Business as a worthwhile and enjoyable experience that is taught with passion and enthusiasm; preparing learners to become effective and ambitious business people. Living in a world dependent on Business being successful to drive the global economy we aim to prepare learners for a lifetime of success within business organisations. The following aims are in addition to the overall aims of the Department:

- To develop learners understanding of the moral, social cultural and emotional impact of businesses in the world we live in
- To promote the spirit of enterprise amongst pupils.
- To offer pupils every opportunity to expand their own knowledge and understanding of business, both locally and globally.
- To develop learners confidence in expressing their ideas to others and their own self esteem
- To develop learner's creativity and problem solving skills by being curious, showing initiative, ingenuity and resourcefulness.
- To encourage pupils to Work individually and together in teams to explore and develop business ideas

Enrichment

There are many opportunities for students to participate in enrichment activities. There are a range of competitions that students enter throughout the year; KS4 - Student Investor - Nationwide competition – teams of 4 run a virtual investment portfolio with winners progressing to regional and national finals. Year 11 students have the opportunity to visit Cadbury World as part of their marketing unit. Students in the Sixth Form have the opportunity to attend the Business Live event at Disneyland Paris. KS5 - Young Enterprise - Nationwide competition to set up and run a school based business. Year 12 students take part in a programme of careers advice which includes a one-to-one session on careers guidance, alumni visits from past students which provide an insight into different careers, and a two week work placement. Trips - KS4/5 Disney Land Paris for a conference about Business.

Contact

Lead Teacher of Business — Ms K. Ewing
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BUSINESS

KS4 & KS5

KS4

List of Topics Covered

Eduqas GCSE Business

Component 1: Business Dynamics

3 hours a week

Component 2: Business Considerations

KS4

List of Topics Covered

NCFE Level 1/2 Technical Award
In Business and Enterprise

Unit 01: Introduction to business and enterprise

Externally assessed: written examination (40%)

3 hours a week

Unit 02: Understanding resources for business and enterprise planning

Internally assessed: synoptic project (60%)

KS5

List of Topics Covered

Year 12

Component 01: Business Opportunities and Functions

Learners will need to study the content areas below:

Eduqas A Level Business

Enterprise, Business plans, Markets, Market research, Business structure,

6 hours a week

Business location, Business finance, Business revenue and costs, Marketing,

Finance, People in organisations (human resources), Operations management.

Component 02: Business Analysis and Strategy

Learners will need to study the content areas below:

Data analysis, Market analysis, Sales forecasting, Analysing financial perfor-

mance, Analysing non-financial performance, Aims and objectives, Strategy and

implementation, Decision-making models, Investment appraisal, Special orders

Component 03: Business in a Changing World

Learners will need to study the content areas below:

Change, Risk management, PEST factors, Ethical, legal and environmental fac-

tors, International trade, Globalisation, The European Union

Contact

Lead Teacher of Business — Ms K. Ewing

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BUSINESS

KS4 & KS5

KS5

List of Topics Covered

Year 13

Paper 1, Paper 2 and Paper 3

AQA A Level Business

6 hours a week

- Choosing strategic direction
- Strategic methods: how to pursue strategies
- Managing strategic change

Contact

Lead Teacher of Business — Ms K. Ewing

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Law

KS5

Curriculum aims

The qualification is aimed at post-16 learners who want to continue their education through applied learning, giving them the opportunity to progress to higher education and eventually employment, possibly in the legal sector. Students study aspects of civil law, criminal law and family law, as well as the influence of the EU on legislation, the difference between manslaughter and murder and what negligence means.

Enrichment

The Law Department prides itself on its varied enrichment programme. The studies will include visits to The Supreme Court, The Old Bailey and The Royal Courts of Justice. We also visit the 4 Inns of Court as part of a Legal London Tour as well as Law Schools and Conferences. We are the only college to offer Advocacy Club providing aspiring barristers with the basics of legal argument and persuasive speech.

Enrichment opportunities Students can participate in a number of enrichment activities and trips including links with universities to discover more about studying Law at degree level.

Contact

Teacher of Law — Ms V Edwards

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Law

KS5

BTEC Level 3 Nationals in
Applied Law
6 hours a week

List of Topics Covered

Year 1:

Unit 2: Investigating aspects of criminal law and the legal system

Assignment 1: The Law Making Process

A: Explore how statutory rules are made and interpreted

B: Examine how legislation is made outside of Parliament

Assignment 2: The Criminal legal System

C: Explore the various legal personnel involved in a criminal trial

D: Apply the key elements of crime and sentencing in non-fatal offence case studies

UNIT 1: Dispute Solving and Civil Law

Teaching and Learning (Covering AO1, AO2, AO3, AO4, AO5)

Year 2:

UNIT 3: Applying The Law

Teaching and Learning (Covering AO1, AO2, AO3, AO4, AO5)

Unit 4 : Family Law

Assignment 1

A: Explore the legal rules governing the formation of marriages, civil partnerships and cohabitation

B: Examine the various methods for dissolving a relationship

Assignment 2

C: Investigate the legal rules governing the distribution of money and property on the breakdown of a relationship

D: Examine how the courts resolve disputes over children

Contact

Teacher of Law — Ms V Edwards

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Law

KS5

List of Topics Covered

AQA AS/A Level GCE Law
6 hours a week

Paper 1: Written exam: 2 hours

The nature of law and the English legal system
Criminal law

Paper 2: Written exam: 2 hours

The nature of law and the English legal system
Tort

Paper 3: Written exam: 2 hours

Law of contract
nature of law and the English legal system

OR

Human rights
The nature of law and the English legal system

Contact

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