

## Biology A Level

<b>What are the entry requirements?</b>	Grade B in Triple Science Biology or grade B in BOTH Science and Additional Science
<b>What will I study?</b>	You will study a variety of biological topics relating to both animal and plant life. These topics include biochemistry essential for life, DNA and genetic engineering, through to ecosystems and classification. Students build on knowledge developed during their GCSE and further their understanding of these key biological concepts.
<b>How is the course assessed?</b>	This is a linear course and will be assessed by three examination papers at the end of Year 13 and core practicals throughout the course to assess practical skill.
<b>Future prospects</b>	Biology can lead to a number of career prospects, including being a biologist, nurse, health care assistant and doctors. This could also lead to specialist scientific paths including lab work, biotechnology, zoology, conservation and veterinary sciences.
<b>Course Leader</b>	Miss S Chapman

## Business Studies A Level

<b>What are the entry requirements?</b>	Grade 5 in English and grade 4 in Maths
<b>What will I study?</b>	<p>Business is front-page news. The way companies operate is under greater scrutiny than ever before, while TV programmes like The Apprentice and Dragon's Den have raised the profile of Business to a new generation. This course brings business up-to-date, enabling you to engage with, explore and understand business behaviour and develop a critical understanding of what business is and does. During the course you will investigate actual businesses and gain an understanding of business finance. You will use what you learn to understand the businesses you investigate. You will:</p> <ul style="list-style-type: none"><li>• learn about and understand the world of business</li><li>• develop skills in the financial aspects of business</li><li>• carry out research, both within and away from the classroom to see how businesses find the right product/service to sell</li><li>• learn how to work in a team with other members of the class to see how this could influence a business</li><li>• learn the skills of leadership required to run your own business</li></ul>
<b>How is the course assessed?</b>	Assessments are carried out throughout the course to check your progress and then you will sit three x 2 hour end of year exams.
<b>Future prospects</b>	You could gain progression into the financial sector, business management and business administration. This course would also allow you entry into university and apprenticeships.
<b>Course Leader</b>	Mr J Cohen

## Chemistry A Level

<b>What are the entry requirements?</b>	Grade B in Triple Science Chemistry or grade B in BOTH Science and Additional Science plus grade 5 in Maths
<b>What will I study?</b>	This is a linear course and over the two years you will study a range of organic and inorganic chemistry including; Atomic structure and the Periodic Table, Chemical bonding and structure, Redox reactions, Inorganic chemistry and the Periodic Table, Formulae, equations and amounts of substance, Organic chemistry, Modern analytical techniques, Chemical energetics, Reaction kinetics, Chemical equilibrium and Transition metals. There are also 16 core practicals throughout the course which give you the opportunity to get some hands on experience of the exciting topics covered in this course.
<b>How is the course assessed?</b>	There are 3 examination papers at the end of year 13, these count for 100% of the grade and include questions on experimental methods. There is also a new practical assessment to test practical competency that includes 16 core practicals that cover all of the 12 techniques required to achieve practical competency.
<b>Future prospects</b>	As well as the obvious of chemistry, this course is also essential for anyone considering courses in medicine, dentistry, veterinary science, pharmacology, pharmacy, materials science or biochemistry. Chemistry graduates are not only employed by the chemical industry (e.g. food retailers, bulk chemical manufacture, brewing, cosmetics and specialised research), other professions such as accountancy, law, personnel and management seek to employ them too because they recognise the rigorous course they have followed, which involves a high level of numeracy, problem solving, thinking and communication skills.
<b>Course Leader</b>	Miss J Murray

## Children's Play, Learning & Development BTEC

<b>What are the entry requirements?</b>	Grade B at GCSE Child Development or grade 5 in GCSE English if new to Child Development.
<b>What will I study?</b>	<p>The course covers both work at pre-school level and in early years within a school. There are 4 units to be completed over the two years.</p> <p>Examples of topics covered are:</p> <ul style="list-style-type: none"><li>Children's Development</li><li>Development of Children's Communication, Literacy and Numeracy Skills</li><li>Play and Learning</li><li>Keeping children safe</li><li>Working in early years</li><li>Services for children and their families</li><li>Career Development in the Early Years Sector</li></ul> <p>There is also a work experience requirement.</p>
<b>How is the course assessed?</b>	There are two external aspects to the course: one unit is an examination and the second is a set assignment. The further two units are portfolio based. The units contain assessment tasks at Pass, Merit and Distinction level.
<b>Additional information</b>	You must have a genuine interest and enthusiasm to work information with children from birth to 7 years. Good communication is also essential.
<b>Future prospects</b>	Students can also progress onto degree level courses such as teaching, early years or social work. It is an ideal course in preparation for these degrees and is fully accepted by admissions tutors.
<b>Course Leader</b>	Mrs S Paice

## Computer Science A Level

<b>What are the entry requirements?</b>	Grade B in Computer Science plus grade 5 in Maths
<b>What will I study?</b>	<p>Fundamentals of programming  Fundamentals of data structures  Fundamentals of algorithms  Theory of computation  Fundamentals of data representation  Fundamentals of computer systems  Fundamentals of computer organisation and architecture  Consequences of uses of computing  Fundamentals of communication and networking  Fundamentals of databases  Big Data  Fundamentals of functional programming  Systematic approach to problem solving  Non-exam assessment – the computing practical project</p>
<b>How is the course assessed?</b>	<p>A-Level: One on-screen exam 2 hours (40%)  A-Level: Written exam 2 hour 30 mins (40%)  A-Level: Non-exam Assessment (20%)</p>
<b>Future prospects</b>	<p>Computer Science is a practical subject where students can apply the academic principles learned in the classroom to real-world systems. It's an intensely creative subject that combines invention and excitement, that can look at the natural world through a digital prism.</p> <p>These are the concepts that lie at the heart of our Computer Science qualifications. They will be the best preparation for students who want to go on to study Computer Science at a higher level and will also provide a good grounding for other subject areas that require computational thinking and analytical skills, such as:-</p> <p>Software Developer, Database Administrator, Computer Hardware Engineer, Computer System Analyst, Computer Network Architect, Web Developer, Information Security Analysts and Computer Programmer</p>
<b>Course Leader</b>	Mr A Heafield

## English Literature A Level

<b>What are the entry requirements?</b>	Grade 6 in English Language and English Literature
<b>What will I study?</b>	You will study a wide variety of texts and explore their social, historical and cultural backgrounds. There will be many opportunities for discussion as you develop your insight and your powers of analysis. You will consider a range of different perspectives on aspects of the human condition and discuss the values explored by a variety of authors. This course really is a must for any student who enjoys reading and exchanging ideas.
<b>How is the course assessed?</b>	In this course you will study a range of poetry, prose and plays from different centuries. This is a linear course and you will be assessed by both written coursework and three examinations
<b>Future prospects</b>	Progression onto university and entry into many professions, such as civil servant, journalist, personal assistant, social worker and teacher.
<b>Course Leader</b>	Mrs K Wilson

## Extended Project Qualification (EPQ) Level 3

<b>What are the entry requirements?</b>	All students entering Post 16 on Pathway 1 will also be entered for the EPQ at Level 3
<b>What will I study?</b>	What is appealing about the EPQ is that the project can be based on – subject to Academy and examination board approval – any issue that really interests a student. Current project topics include the case for the renewal of Trident, serial killers, space exploration and studying the understanding of children with autism. Students are taught research methodology, academic writing skills, how to prepare for tutorials and a whole host of attributes needed to succeed in higher education and employment. Visiting speakers will include representatives from universities and employers such as the Bank of England. Students will also make use of the Open University's 'Futurelearn' platform.
<b>How is the course assessed?</b>	Year 1: assessed? This is a research based project taking place over the majority of their study time in post 16. It is equivalent to half an A Level in terms of UCAS points. Students will have to provide evidence of their research on topics, including logs of supervisor meetings and amendments to their research. Their final piece of work will be a 5000 word project essay, or artefact combined with a 1500 word essay. Submission for their final project is planned for December 2018.
<b>Additional Information</b>	Much content of the course is student led and it develops independent learning skills and the ability to write critically. EPQ is a fantastic opportunity to study something of great personal interest, be accredited for it and significantly enhance your future!
<b>Future prospects</b>	Universities have praised highly the EPQ and value it greatly on applications.
<b>Course Leader</b>	Mr I McLaughlin

## Finance IFS Certificate

<b>What are the entry requirements?</b>	Grade 4 in English and Maths
<b>What will I study?</b>	<ul style="list-style-type: none"><li>• You will study the importance of money and you will have an introduction to the financial services industry by focusing on the interaction between money, personal finance and the financial services market place.</li><li>• You will gain the ability to plan and manage your money to achieve needs, wants and aspirations. You will appreciate not only the need for short-term but also medium and long-term planning.</li><li>• You will explore how the external environment affects the financial services industry and the financial products and services available in the marketplace.</li><li>• You will have the opportunity to investigate the financial services marketplace from the point of view of the provider and appreciate the challenges that they face.</li><li>• You will become confident, informed consumers capable of planning, monitoring and controlling their short, medium and long-term finances effectively.</li></ul>
<b>How is the course assessed?</b>	This is a modular course with one unit being assessed in January and the second unit being assessed in June. For each exam, section A is multiple choice and section B is a written paper based on a pre-release case study.
<b>Future prospects</b>	This course could lead to numerous paths, including banking, insurance, financial services and accounting. This course would also allow you entry into university and apprenticeships.
<b>Course Leader</b>	Mr J Cohen

## Fine Art A Level

<b>What are the entry requirements?</b>	Grade B in Art
<b>What will I study?</b>	You need to be the type of person who enjoys expressing themselves through colour, shape and form. You will learn an extensive variety of artistic techniques, and will gain experience with a range of materials, covering every aspect of Art and Design. You will learn to make innovative visual art through drawing, painting, print-making, sculpture and mixed-media approaches.
<b>How is the course assessed?</b>	Assessment is based on practical projects, followed by an examination.
<b>Future prospects</b>	Studying Fine Art at A level can open the door to a wide range of degree courses in any aspect of Art and Design. Future employment opportunities are vast and career prospects include: freelance artist, props designer, sculptor, art therapist, interior designer, set designer, teacher, gallery worker, museum curator.
<b>Course Leader</b>	Mrs A Burrige

## Graphic Art A Level

<b>What are the entry requirements?</b>	Grade C in Art, Textiles or Graphics, or a strong portfolio of work
<b>What will I study?</b>	You will gain an understanding of a wide range of techniques using traditional art mediums, and digital tools. You will work through projects with design briefs to develop your appreciation of the relationships that exist between design, materials and marketing. There is a particular emphasis on the use of commercial graphics systems and software packages.
<b>How is the course assessed?</b>	Assessment is based on practical assignments, followed by an examination.
<b>Future prospects</b>	This course is an excellent stepping stone to pursuing a career in any area of Art and Design. Graphic Art students often go into career paths related to: computer games design, graphic design, illustration, commercial sign-writing, industrial design, advertising and layout design.
<b>Course Leader</b>	Mrs A Burrige

## Health & Social Care BTEC

<b>What are the entry requirements?</b>	Grade B at GCSE Health and Social Care or grade 5 in GCSE English if new to Health and Social Care.
<b>What will I study?</b>	<p>Students develop a broad understanding of the health, social care and early years sectors, as well as the skills and technical knowledge of this area. In addition they will gain an awareness of particular groups and their needs by focusing on health, early years, care of older people or individuals with specific needs. This is a sector specific qualification. There are four units to be studied over the two years.</p> <p>Units covered:</p> <ul style="list-style-type: none"> <li>Human Lifespan Development</li> <li>Working in Health and Social Care</li> <li>Meeting Individual Care and Support Needs</li> <li>Physiological Disorders and their Care</li> </ul>
<b>How is the course assessed?</b>	Two units are portfolio based. The units contain assessment tasks at Pass, Merit and Distinction level. Two units have examinations, one in year 12 and one in year 13.
<b>Additional information</b>	<p><b><u>You must have a genuine interest and enthusiasm to work information with people of all ages and needs.</u></b></p> <p>This course requires you to apply knowledge and understanding from the 'real' world so some experience in this area is useful. This will support you to achieve the higher grades.</p> <p>This course has the same UCAS points as the A level in H&amp;SC.</p>
<b>Future prospects</b>	Health and Social Care enables students to progress to degree level courses such as nursing, midwifery, social work, teaching and physiotherapy. It is an ideal course in preparation for these degrees and is fully accepted by admissions tutors. You could also go onto relevant employment within the health, social care and early years sector.
<b>Course Leader</b>	Mrs C Dudbridge

## History A Level

<b>What are the entry requirements?</b>	Grade 5 in English grade C in History Admission can be subject to discussion with subject leader if not previously studied at GCSE
<b>What will I study?</b>	<p>You will study a 'modern' course. This starts in the late eighteenth century and ends in the late twentieth century to meet the 200 year rule.</p> <p>Paper 1 covers Britain transformed, 1918-1997. Paper 2 covers the USA, 1955-1992: Conformity and Challenge. Paper 3 covers poverty, public health and the state in Britain c 1780-1928 and coursework will relate to the civil rights movement in the USA, 1877-1981.</p> <p>The topics in paper 1 and 2 are linked thematically and share some of the same content for AS and A-Level. The exams have the same structure but A-Level papers will be more demanding.</p> <p>Papers 1 and 2 meet the requirement to study two different countries. Paper 3 meets the requirement to study change over at least 100 years/</p> <p>Coursework offers students the opportunity to investigate a problem, question or issue that stems from their paper 1, 2 or 3 topics.</p>
<b>How is the course assessed?</b>	AS – Two written exams A2 – One written exam and one coursework enquiry
<b>Future prospects</b>	History is a highly regarded academic qualification and this course will allow you to develop the skills and competencies to progress to university.
<b>Course Leader</b>	

## Mathematics A Level

<b>What are the entry requirements?</b>	Grade 6 in Mathematics
<b>What will I study?</b>	<p>Students of our Edexcel A level in Maths will develop an understanding of mathematics and mathematical processes, develop the ability to reason logically and construct mathematical proofs, and understand coherence and progression in mathematics and how different areas of mathematics can be connected.</p> <p>Topics you will learn include;</p> <ul style="list-style-type: none"> <li>• Algebra and functions</li> <li>• Coordinate geometry in the <math>(x,y)</math> plane</li> <li>• Sequences and series</li> <li>• Trigonometry</li> <li>• Exponentials and logarithms</li> <li>• Differentiation</li> <li>• Integration</li> <li>• Vectors</li> <li>• Numerical Methods</li> <li>• Statistical sampling</li> <li>• Data presentation and interpretation</li> <li>• Probability</li> <li>• Statistical distributions</li> <li>• Statistical hypothesis testing</li> <li>• Quantities and units in mechanics</li> <li>• Kinematics</li> <li>• Forces and Newton's laws</li> <li>• Moments</li> </ul>
<b>How is the course assessed?</b>	<p>The Pearson Edexcel Level 3 Advanced GCE in Mathematics consists of three externally-examined papers.</p> <p><b>Paper 1: Pure Mathematics 1</b>  <b>2 hour exam 33.33% of the qualification</b></p> <p><b>Paper 2: Pure Mathematics 2</b>  <b>2 hour exam 33.33% of the qualification</b></p> <p><b>Paper 3: Statistics and Mechanics</b>  <b>1 hour exam 33.33% of the qualification</b></p>
<b>Future prospects</b>	<p>Candidates can take on apprenticeships in Accounting, Finance, Engineering, Banking, Investments, Economic, Insurance, Mortgage Broker, Mortgage Consultant, Army, Air force, Navy, Jobs in the Ministry of Defence, Property Management to name a few. Candidates can also obtain degrees in Economic, Accounting, Computer Science, Investment, Banking, Finance, Actuarial Science, Insurance, Mathematics, Mathematics Education, Applied Mathematics, Risk Analyst, Statistician to name a few.</p>
<b>Course Leader</b>	Mrs M Lane

## Photography A Level

<b>What are the entry requirements?</b>	Grade C in at least one Art and Design related course
<b>What will I study?</b>	<p>Do you have an eye for Photography?</p> <p>The Photography course is diverse and offers you the opportunity to learn about digital and analogue camera techniques, as well as developing your basic art skills. The course will enhance your understanding of digital photography and photo-manipulation, lighting, composition, image manipulation, in-camera special effects, moving image and presentation.</p> <p>As well as learning a range of practical techniques, the course will also encourage you to take creative inspiration from the work of others, as you study the history of Photography and the work of famous photographers. An ability to annotate and evaluate your work is vital for success on this course.</p>
<b>How is the course assessed?</b>	You will be assessed on the work you produce, based on practical projects that explore a range of themes. There will also be an examination.
<b>Future prospects</b>	<p>Photography at A level could lead into a range of further study on an Art and Design course at university, or career options including:</p> <ul style="list-style-type: none"><li>Photojournalist</li><li>Fashion Photographer</li><li>Industrial Photographer</li><li>Crime Scene Investigator</li><li>Illustration</li><li>Graphic Designer</li><li>Freelance Photographer</li><li>Website content provider</li></ul>
<b>Course Leader</b>	Miss K Jones

## Physics A Level

<b>What are the entry requirements?</b>	Grade B in Triple Science Physics or grade B in BOTH Science and Additional Science plus a grade 5 in Maths
<b>What will I study?</b>	There are also 16 core practicals throughout the course which give you the opportunity for hands on experience of the exciting topics covered in this course.
<b>How is the course assessed?</b>	This is a linear course and will be assessed by three examination papers at the end of Year 13.
<b>Future prospects</b>	Students on this course develop practical and problem solving skills which are relevant to a vast number of career paths. Taking A Level Physics will allow you to go on to study a variety of Scientific courses including Physics, Engineering, Architecture and Medicine. It can also be desirable for many other professions where the ability to think logically, apply ideas to new situations and solve problems are considered to be valuable skills.
<b>Course Leader</b>	Mr P Dunn

## Psychology A Level

<b>What are the entry requirements?</b>	Grade 6 in English and grade 5 in Maths
<b>What will I study?</b>	This qualification offers an engaging and effective introduction to Psychology. Students will learn the fundamentals of the subject and develop skills valued by Higher Education (HE) and employers, including critical analysis, independent thinking and research. The course includes a wide range of topics including social influence, memory, psychopathology, research methods and approaches in psychology.
<b>How is the course assessed?</b>	Assessments: three written exams papers including multiple choice, short answer and extended writing questions.
<b>Future prospects</b>	This qualification can lead to further study at a higher education establishment, in areas including psychology, social science and counselling. It can lead to careers in teaching, public services, counselling, research based positions, and various fields of psychology including forensics, clinical and educational.
<b>Course Leader</b>	Mrs C Patmore

## Religion, Philosophy & Ethics A Level

<b>What are the entry requirements?</b>	Grade 5 in English and grade C in Religious Studies if studied
<b>What will I study?</b>	<p>Unit 1 – Philosophy. This involves a study of philosophical influences ranging from Plato and Aristotle to current 21st century philosophical ideas. Topics include debate about the existence of God and the soul, body, mind distinction.</p> <p>Unit 2 – Ethics. This unit involves a study of morality. Students will consider how different ethical theories help people to make moral decisions. They will then apply these theories to issues surrounding euthanasia, business ethics and sexual ethics.</p> <p>Unit 3 – Developments in Christian thought. This unit involves a study of religious beliefs, values and teachings and their interconnections. They will look at key themes related to the relationship between religion and society.</p>
<b>How is the course assessed?</b>	<p>This course is 100% exam. Students will sit three 2 hour papers in May/June 2019.</p> <p>A large amount of reading around the course is recommended to be successful in this subject.</p>
<b>Additional information</b>	There is no need to hold any religious beliefs. Students of a religion or of no religion are equally welcome and both have traditionally done well in this subject.
<b>Future prospects</b>	Work in law, medicine, social work, the civil service, international development, teaching, the police service, media, advertising, nursing and caring professions, probation officer, journalism, charities and fund raising, commercial-export, international development, counselling and social policy are just some of the areas where students of A level Religion, Philosophy and Ethics have gone on to carve out successful careers, and where philosophical and ethical thinking has been a useful and transferable skill to have.
<b>Course Leader</b>	Mr K Ryan