



Open Evening

5 - 7pm

13th October, 2022.

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Sigma Sixth Open Evening is on Thursday 13th October.

Come along to find out more about:

- the subjects on offer
- subjects and career progression
- the support and guidance you will receive at Sigma Sixth
- the wide range of extra curricular opportunities available

Applications open on 13th October and close at the end of January.

We look forward to receiving your application.

Miss Smith
Head of Sigma Sixth

Subject Menu

01 - A-Level Art and Design

02 - A-Level Biology

03 - A-Level Business Studies

04 - A-Level Chemistry

05 - A-Level Computer Science

06 - A-Level Criminology

07 - A-Level Economics

08- A-Level English Literature

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10- A-Level Geography

11- A-Level VI6 German

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13- A-Level History

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in Sports Coaching and
Development

A-Level Art and Design



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01.



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Course Outline

Fine art is a creative and practical subject that offers students the opportunity to explore, create, experiment and develop a personal portfolio that reflects not only excellent art and design skills but also advanced visual language techniques. Students will learn to contextualize the art and see it in a wider context of social, political, technological and, above all, artistic contexts. This will further their design skills and enable students to underpin their knowledge and achieve higher attainment levels.

The A-Level is a two year course which consists of three units of work: Personal Portfolio, Critical Study and the externally set assignment. Within the Art and Design A Level we are offering three disciplines: Fine Art, Textiles and Graphic Communications.

Unit 1: Fine Art Portfolio Critical Study – 60%

Unit 2: Externally set assignment – 40%

Careers: fine artist; art gallery curator; art therapist; art teacher; art technician; art valuer/auctioneer; illustrator; conservator; arts admin and fundraising;

Post 18 (with a degree in Art and Design) all of the above plus: art and design in fashion; architecture; careers in media, film and theatre.

Entry requirements: To study Art at A-Level you should have a GCSE grade 5 or above in Art and Design and a Grade 4 or above in English.



Two female students in white lab coats and safety goggles are working in a laboratory. One student is holding a test tube and pouring its contents into a rack containing several other test tubes with colored caps (green, orange, yellow, blue). The other student is smiling and looking at the test tubes. They are both smiling and appear to be enjoying their work.

Welcome to
Sigma Sixth Colchester

Three written exams will assess content from sections 1 to 8. Practical skills are assessed within the written papers with 15% of the total A Level marks allocated for practical knowledge and understanding. A separate endorsement of practical skills requires students to undertake a minimum of 12 teacher-assessed practical activities during the two year course.

Section 1: Biological molecules

Section 2: Cells

Section 3: Organisms exchange substances with their environment

Section 4: Genetic information, variation and relationships between organisms

Section 5: Energy transfers in and between organisms

Section 6: Organisms respond to changes in their internal and external environments

Section 7: Genetics, populations, evolution and ecosystems

Section 8: The control of gene expression.

Careers: Following a Biology course provides the skills that could be used in a varied range of professions including medicine, veterinary medicine, animal health, horticulture, agriculture, physiotherapy, teaching, food science technology, midwifery, dentistry, biochemistry, occupational therapy, optometry, pharmacy and radiography.



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The A Level course aims to develop a critical understanding of organisations, the markets they serve and the process of adding value.

This involves consideration of the internal workings and management of organisations and, in particular, the process of decision making in a dynamic external environment. We look at the inter-relationship between the four main functional areas of business, and pay particular attention to the strategic decisions that each of the areas may take in order to contribute to the success of the whole business.

- Paper 1: Marketing & Global Businesses
- Paper 2: Business Activities & Strategies
- Paper 3: Investigating Businesses

Careers: Possible career choices with A-level business studies include management, marketing, finance, accounting, banking, retailing, manufacturing and local government.

Post 18 (with a degree in Business): Many universities will accept business studies as an A-level when applying for courses such as economics, business studies and many other options.

A-Level Chemistry



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Three written exams will assess content from both Years 12 and 13.

Practical skills are assessed within the written papers with 15% of the total marks allocated for practical knowledge and understanding. A separate endorsement of practical skills requires students to undertake a minimum of 12 teacher-assessed practical activities.

Year 1: Physical chemistry; Atomic structure; Amount of substance; Bonding; Energetics; Kinetics; Chemical equilibria; Oxidation, Reduction and redox equations; Inorganic chemistry; Periodicity; The alkaline earth metals; The halogens; Organic chemistry; Alkanes; Halogenoalkanes; Alkenes; Alcohols; Organic analysis.

Year 2: Physical chemistry; Thermodynamics; Rate equations; Electrode potentials and electrochemical cells; Acids and bases; Inorganic chemistry; Period 3 elements and their oxides; Transition metals; Reactions of ions; Organic chemistry; Optical isomerism; Aldehydes and ketones; Carboxylic acids; Aromatic chemistry; Amines; Polymers; Amino acids, proteins and DNA; Organic synthesis; Nuclear magnetic resonance spectroscopy; Chromatography.

Careers: Chemistry is highly regarded as a sound basis for employment in many areas. By entering the world of Chemistry you will be equipping yourself to play a leading role in the complex world of tomorrow: analytical chemist, chemical engineer, forensic scientist, nanotechnologist, pharmacologist, toxicologist, scientific laboratory technician, environmental consultant, secondary school teacher.

A-Level Computer Science



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A-Level Computer Science

Course Outline

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Computer Systems—40% of A-Level

- Characteristics of Processors, Software, Representation of Data
- Legal, Moral and Ethical Issues

Algorithms and Programming—40% of A-Level

- Computational Thinking and Problem Solving
- Algorithms

Programming Project—20% of A-Level

- Analysis, Design, Development and Evaluation of a Programming Project

Careers: application analyst; applications developer; cyber security analyst; data analyst; database administrator; forensic computer analyst; game designer; information systems manager; IT consultant; software engineer; systems analyst; UX designer; web designer; web developer.



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Level 3 Certificate - Criminology

Course Outline

This Level 3 course is equivalent to an A-Level.

Unit 1: Changing Awareness of Crime: How we can differentiate between myth and reality when it comes to crime, and understand the importance of changing public perceptions of crime.

Unit 2: Criminological Theories Different theoretical explanations of crime and how to understand the behaviour of a specific crime or criminal.

Unit 3: Crime Scene to Courtroom The development of the skills needed to review criminal cases, evaluating the evidence to determine whether the verdict is safe and just.

Unit 4: Crime and Punishment The consequences to those who violate our legal system and how they are punished within the criminal justice system in England and Wales.

Careers: Civil Service administrator; community development worker; crime scene investigator; detective; police officer; prison officer; probation officer; social worker; youth worker.

Post 18 (with a degree in Criminology): As a criminology graduate with critical thinking, analytical and communications skills, you're attractive to employers both inside and outside the criminal justice sector.

A-Level Economics



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Economics

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Micro-economics:

Markets and Market Failure: why economic choices have to be made; the market model; how markets can be efficient and also how they can fail.

Macro-economics:

The National Economy; the use of economic models to develop a critical understanding of macroeconomic issues; understanding and evaluating the different policy options used by governments to manage the economy.

The subject content is largely topical and this makes it necessary for students to consult a wide variety of media sources such as newspapers, television and the Internet.

Careers: actuarial analyst; chartered accountant; compliance officer; data analyst; economist; external auditor; financial risk analyst; investment analyst; political risk analyst; risk manager; statistician; stockbroker.

Post 18 (with a degree in Economics): Studying social policy and financial markets as part of an economics degree opens up careers in finance, accountancy and government departments.

A-Level English Literature



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On this course you will study the works of some of the world's greatest authors, dramatists and poets. You will study a wide range of literature, from Shakespeare to the present day: 'Othello' - Shakespeare, 'Persuasion' - Austen, AQA Poetry Anthology, 'The Handmaid's Tale' - Atwood, 'Cat on a Hot Tin Roof' - Williams, 'Feminine Gospels' - Duffy.

English Literature combines well with almost any other subject and can introduce breadth to a science or mathematics-based curriculum.

Assessment takes the form of mainly examinations. Non-Examination assessment offers you the opportunity to develop extended pieces of analytical work over a period of time. Examinations and the NEA count towards the overall grading.

Careers: digital copywriter; editorial assistant; English as a foreign language teacher; lexicographer; magazine journalist; newspaper journalist; private tutor; publishing copy-editor/proof-reader; secondary school teacher; web content manager; writer.

Post 18 (with a degree in English Literature): The skills you gain through studying English are marketable in most sectors. Careers where your degree would be useful include: academic librarian; advertising copywriter, archivist; arts administrator; education consultant; information officer; learning mentor; marketing executive; media researcher; PPC specialist; primary school teacher; public relations officer; records manager; social media manager.

A-Level Further Mathematics



09.

A collage of mathematical diagrams and formulas. At the top left is a circuit diagram with a source Z_0 , a load Z_L , and voltage labels $V_{incident}$ and $V_{reflected}$. Next to it are formulas for impedance $z = \frac{Z_L}{Z_0}$ and reflection coefficient $\Gamma = \frac{V_{reflected}}{V_{incident}}$. To the right is the formula $\frac{a}{b+c} = a \div (b+c) \neq \frac{a}{b} + \frac{a}{c}$. Below the circuit are two complex plane diagrams. The first shows circles for $Re(z)$ and $Im(z)$ with points for short circuit ($z=0$), impedance matched ($z=1$), and open circuit ($z=\infty$). The second shows a unit circle for Γ with points $\Gamma=j$, $\Gamma=1$, $\Gamma=0$, and $\Gamma=-1$. In the center is a 3D diagram of a parallelepiped with vectors a and b , angle θ , and volume $P=2\ell+2W$. To the right is a vector diagram showing $\vec{r}$, $\vec{a}$, $\vec{b}$, and $\vec{c}$ in a coordinate system. At the bottom right is a quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ with a dashed circle around it.

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A-Level Further Mathematics at Essex University

Course Outline

In the first year you will study the compulsory unit Further Core Maths 1 where you will study proof, complex numbers and matrices. You will also study two modules from Further Mechanics 1 and Further Decision Maths 1. In the second year you will study the compulsory unit Further Core Maths 2 where you will study polar co-ordinates, hyperbolic functions and differential equations. You will also study two optional modules Further Mechanics 1 and Further Decision Maths 1.

- Two 90 mins Core Maths exams
- 90 mins Further Mechanics 1
- 90 mins Further Decision Maths 1

Careers: acoustic consultant; actuarial analyst; actuary; astronomer; chartered accountant; chartered certified accountant; data analyst; data scientist; investment analyst; research scientist (maths); secondary school teacher; software engineer; statistician.

Post 18 (with a degree in Further Mathematics): The logical thinking, problem-solving and decision-making skills you learn while studying a mathematics degree are highly valued by employers across many job sectors. Jobs where your degree would be useful include: CAD technician; civil service fast streamer; financial manager; financial trader; game designer; insurance underwriter; machine learning engineer; meteorologist; operational researcher; quantity surveyor; software tester.



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Physical Geography Paper 1 (40%)	Human Geography Paper 2 (40%)	Geography fieldwork investigation (20%)
A. Water and carbon cycles B. Coastal systems and landscapes C. Hazards	A. Global systems and global governance B. Changing places C. Resource security	Students complete an individual and independent fieldwork investigation.

Careers: Environmental Consultancy, Building Planning and Development Surveyor, Geographical Information Systems Officer / Cartographer, Town Planning, Education, Journalism, Researcher, Climate Change Analyst, Teacher, Lecturer, Environmental Manager, Exploration Geologist, Diplomat, Landscape Architect, Water Conservation Officer, Meteorologist, Nature Conservation Officer, Recycling Officer, Sustainability Consultant, Tourist Information Officer, Transportation Planner, Travel Agent.

A-Level German



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A-Level German - Course Outline

A Level German will allow you to access the most widely spoken language in Europe. Germany is often referred to as the land of “Dichter und Denker” – of poets and thinkers. Knowing German allows you to access the works of these people in their original language and to more fully understand the culture that they grew out of. In Year 12 you will study two themes: **Social Issues and Trends** and **Artistic Culture** covering topics such as the changing nature of families and the place of information technology in society, as well as things that young German people really like such as music and films. In addition, you will study some different aspects of artistic culture, e.g. festivals, art and architecture and Berlin. These topics will give students a deeper insight into the German-speaking world. In Year 13 you will study a book and themes to topics such as cultural diversity, law and order and the right to vote. There is also the opportunity to research a topic related to Germany or German-speaking communities that is particularly interesting to you. You will be examined through three papers:

Paper 1: Listening, Reading and Writing (translations) 50% of the A Level.

Paper 2: Writing (one book and one film) 20% of the A Level.

Paper 3: Speaking (discussion of a subtheme and presentation of an individual research project) 30% of the A Level.

Careers: Some German graduates use their language skills as translators, interpreters or teachers. Others embark on careers in areas ranging from banking to tourism. and preservation, TV and social media platforms.



Health & Social Care

Level 3 Certificate - Health and Social Care

Course Outline

Students are required to complete four mandatory units which are assessed via examination. The other three units are assessed via portfolio.

Modules include:

- Building Positive Relationships
- Equality, Diversity and Rights
- Health and Safety and Security
- Anatomy and Physiology
- Sexual Health, Reproduction & Early Development Stages

The course equips students with the skills needed for higher education courses such as: medical health and social care; social policy; social work; nursing; physiotherapy; occupational therapy; working with children, young people and families; psychology; sociology.

Please note that this course is a Technical Award, which means it is recognised as an equivalent to an A Level and therefore UCAS points are awarded accordingly.

Careers: childcare; nursing; paediatrics; midwifery; social work; teaching; police officer; probation officer; paramedic; health visitor; mental health worker; counselling, neuro, sport and exercise and forensic.



A-Level History

Course Outline

Our A Level History qualification (AQA) has been designed to help students understand the significance of historical events, the role of individuals in history and the nature of change over time. This qualification will help all students to gain a deeper understanding of the past through political, social, economic and cultural perspectives. The engaging topics available to students throughout the course will provide the knowledge and skills required to succeed at A Level.

Topics to be studied are:

- Component 1: The Tudors: England, 1485-1603
- Component 2: The USSR and the Soviet Empire, 1953-2000
- Component 3: Historical Investigation: Ireland & Britain in the 20th Century
(These topics are different if History is studied at Essex University on a Monday)

Careers: the law & the legal profession ie solicitor, barrister, legal secretary:
advertising: digital online marketing and promotion: Public Relations: researcher
(particularly in communications industries): Written, broadcast & digital journalism:
heritage industries eg building & conservation, museum, gallery and exhibitions
industries: archaeology and preservation: tourism : TV and social media platforms
Post 18 (with a degree in History) Careers where a degree in History would be
useful include: academic & research support, civil service and local government,
administration & editorial, human resources, information officer; marketing & policy
assistant; solicitor.



HISTORY

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A-Level History

Course Outline

Our A Level History qualification (WJEC) has been designed to help students understand the significance of historical events, the role of individuals in history and the nature of change over time. This qualification will help all students to gain a deeper understanding of the past through political, social, economic and cultural perspectives. The engaging topics available to students throughout the course will provide the knowledge and skills required to succeed at A Level. Topics to be studied are:

- Unit 1 - Period Study: The French Revolution 1774-1792
- Unit 2 - History in Depth: The Tudors: England 1529-1553
- Unit 3 - Breadth Studies: Protest and Rebellion 1240-1415
- Unit 4 - History in Depth: The Tudors 1553-1570
- Unit 5 - NEA: Historical Investigation: Ireland & Britain in the 20th Century

Careers: solicitor, barrister, legal secretary, advertising, digital online marketing and promotion, researcher, written, broadcast & digital journalism, heritage industries e.g. building & conservation, museum, gallery and exhibitions industries, archaeology and preservation, TV and social media platforms.

Post 18 (with a degree in History) Careers where a degree in History would be useful include: academic & research support, civil service and local government, administration & editorial, human resources, information officer; solicitor.



A-Level Law

Course Outline

Students will study three units over the A Level course: The legal system and criminal law; law making and the law of tort; the nature of law and the law of contract. These topics will give students an insight into the distinction between enforceable legal rules in contrast to other rules and norms of behaviour.

You will also gain an understanding of the differences between criminal and civil law and between different sources of law including custom, statute law and the common law. There are also topics such as the legislative process including types of bills, stages in the process and the role of the Law Commission as well as a variety of influences on law making. You will also study delegated legislation, statutory interpretation, judicial precedent, the functions of the civil and criminal courts as well as the legal profession. You will also learn about defences such as insanity, automatism and self-defence. Other areas include tort law, law and morality and contract law.

Careers: arbitrator; barrister; barrister's clerk; chartered legal executive; company secretary; costs lawyer; detective; licensed conveyancer; paralegal; solicitor

Post 18 (with a degree in Law) all of the above plus: advice worker; border force officer; chartered accountant; civil service administrator; data analyst; data scientist; external auditor; forensic computer analyst; human resources officer; mediator; patent attorney; political risk analyst; stockbroker.



VI6

Sixth forms in partnership
with the University of Essex



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Students will study three units over the A Level course: The legal system and criminal law; law making and the law of tort; the nature of law and the law of contract. These topics will give students an insight into the distinction between enforceable legal rules in contrast to other rules and norms of behaviour. You will also gain an understanding of the differences between criminal and civil law and between different sources of law including custom, statute law and the common law. There are also topics such as the legislative process including types of bills, stages in the process and the role of the Law Commission as well as a variety of influences on law making. You will also study delegated legislation, statutory interpretation, judicial precedent, the functions of the civil and criminal courts as well as the legal profession. You will also learn about defences such as insanity, automatism and self-defence. Other areas include tort law, law and morality and contract law.

Careers: arbitrator; barrister; barrister's clerk; chartered legal executive; company secretary; costs lawyer; detective; licensed conveyancer; paralegal; solicitor

Post 18 (with a degree in Law) all of the above plus: advice worker; border force officer; chartered accountant; civil service administrator; data analyst; data scientist; external auditor; forensic computer analyst; human resources officer; mediator; patent attorney; political risk analyst; stockbroker.

A-Level Mathematics



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17.

$$= \frac{y(x - \sqrt{x^2 + 3})}{x^2 + 3}$$
$$\Rightarrow \int \frac{dy}{y} = \int \frac{x dx}{x^2 + 3} - \int \frac{dx}{\sqrt{x^2 + 3}}$$
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The course follows three key elements:

Core, Statistics and Mechanics. All students intending to pursue a conventional 2-year A-Level in Mathematics will sit a test of their mathematical capability within the first two weeks of Year 12. Prior to this, all applicants will receive a preparatory pack to work through during the summer break, outlining the skills that we believe a student should possess before embarking on A-Level Mathematics.

- Two 2 hour Pure maths papers
- One 2 hour Statistics and Mechanics paper

Entry requirement: Students should have a Grade 7 or above in GCSE Mathematics

Careers: acoustic consultant; actuarial analyst; actuary; astronomer; chartered accountant; chartered certified accountant; data analyst; data scientist; investment analyst; research scientist (maths); secondary school teacher; software engineer; statistician.

Post 18 (with a degree in Mathematics): The logical thinking, problem-solving and decision-making skills you learn while studying a mathematics degree are highly valued by employers across many job sectors. Jobs where your degree would be useful include: CAD technician; civil service fast streamer; financial manager; financial trader; game designer; insurance underwriter; machine learning engineer; meteorologist; operational researcher; private tutor; quantity surveyor; radiation protection practitioner; software tester.



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18.

PHOTOSHOP LAYOUT NEWSPAPER SOCIAL GROUPS SOUND
DESIGN THEME SCALE ADOBE
GENRE TIME COLOUR EDITING
CAMERA ANGLE SIGNS SIGNALS TOOLS SHOTS ACTION CULTURE
SPECIAL EFFECTS
IDEOLOGY DENOTATION
DIEGETIC TEXTUAL
RADIO
STUDIES INSTITUTION COMMUNICATION TELEVISION DVD NEWS TREATMENT SIGNAL FILM
CINEMA CONTEMPORARY MAGAZINES REPRESENTATION
PLOT MARKETING NARRATIVE CODES CONNOTATION
TECHNOLOGY PORTFOLIO ELEMENTS AIRBRUSH EXPERIENCES AESTHETICS EVENTS
TEXT LANGUAGE LIGHTS MOOD PACING CHARACTER LANGUAGE
ANALYSIS PAPER DISCUSS CONSUMPTION MISE-EN-SCENE
AUDIENCE

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A-Level Media Studies will allow you to develop excellent critical thinking skills and a detailed understanding of how the media works. Media Studies at advanced level requires close analysis and comparison of media products in relation to relevant key social and cultural contexts. Media Studies is a good example of a cross-curricular subject. It will develop your research skills, analytical skills, creativity, reading and writing. As such, it provides useful preparation for further education and employment. Media has links with the study of texts and language in English as well as great debating opportunities. It also shares relevance with the social sciences.

Coursework: Production of an individual cross-media production in response to a brief based on two media forms.

Paper 1: Media Products, Industries and Audiences

Content of study includes the following forms: advertising, marketing, film, newspapers, radio and video games.

Paper 2: Media Forms and Products in Depth

Content of study includes the following forms: television, magazine, online and social media.

Careers: Studying Media A level will give you a variety of future career directions and transferable skills for your next steps such as: magazine journalist, editorial assistant, film director, photographer, UX designer, writer, digital marketer, media buyer/planner, media researcher, public relations officer, broadcasting, social media manager, television/film/video producer, web content manager.

Music Performance



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Level 3 Music Performance

Course Outline

Equivalent to an A-Level, the course focuses on performance as a tool for the creative musician. Much of the work involves the practical application of performance and what to expect as a performer in the music industry. Much of the work involves original composition and production. Each project you complete is designed to be realistic to what you would expect in industry.

The Music Performance BTEC is a level 3 qualification equivalent to an A-level. The course has been developed in collaboration with industry, professional bodies and universities to include relevant skills and so provide high-quality progression through to employment or further study.

The course is divided into units covering a diverse range of musical skills and knowledge – from writing and composing your own music, through to essential practical industry knowledge such as copyright, licensing and contracts. You will get the opportunity to demonstrate the skills you've acquired both working independently and with others in a live performance piece.

Careers: music producer, music therapist, musician, private music teacher, secondary school teacher, sound designer, sound engineer, sound technician, broadcasting film/video, special effects technician, arts administrator, broadcast engineer, choreographer, community arts worker, event manager, marketing executive, private tutor, radio broadcast assistant, radio producer, talent agent, theatre stage manager.



BTEC PERFORMING ARTS

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Course Outline

This BTEC Level 3 qualification is equivalent to an A-Level and is designed to provide students with the knowledge, skills and understanding necessary to access and progress to degree level study or employment in the performing arts. BTEC Performing Arts provides opportunity for students to explore, develop and test their creativity within a qualification structure which is both stimulating and demanding.

Key Units include:

- Investigating Practitioners' Work
- Developing Skills and Techniques for Live Performance (Certificate)
- Group Performance Workshop
- Performing Arts in the Community
- Final Live Performance to an Audience

A BTEC in Performing Arts helps build crucial skills of critical review, research, analysis and evaluation. Students will be required to solve complex problems through the application of practical, theoretical and technical understanding and take responsibility for planning and time management to ensure they effectively present themselves and their work to audiences.

Careers: actor, dancer, musical theatre performer, dance, music or drama therapist, theatre director, screenwriter, arts administrator, theatre stage manager, broadcasting presenter, teacher/higher education lecturer.



A-Level Photography

Course Outline

Studying photography enhances your creative, social and cultural understanding, while developing your specialist technical knowledge around equipment, techniques and style. Photography is a creative and practical subject that offers students the opportunity to explore, create, experiment with digital processes.

The course consists of two units of work, Personal portfolio and Externally set assignment. In the first year we offer Foundation skills for students who did not take GCSE Photography before they embark on their personal portfolio for their coursework submission. Students then go on to complete their critical study and an externally set assignment.

Unit 1: Personal Photographic Portfolio and Critical Study 60%

Unit 2: Externally set assignment 40%

All coursework is marked internally and externally moderated.

Careers: advertising art director; film/video editor; graphic designer; magazine features editor; medical illustrator; photographer; television camera operator.

Post 18 (with a degree in Photography): art therapist; digital marketer; media planner; multimedia specialist; museum/gallery curator; stylist; VFX artist; visual merchandiser; web content manager; web designer.

Entry requirements: To study Photography at A-Level you should have a creative subject at GCSE grade 5 or above (e.g. Graphics, Art, Media Studies) and a Grade 4 or above in English.

A-Level Physical Education

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A-Level Physical Education

Course Outline

Two 2 hour exams plus Non-Examination Assessment (NEA)

Paper 1: Factors affecting participation in Physical Activity & Sport

Paper 2: Factors affecting optimal performance in Sport

NEA: Practical Performance

Across the two years of study the following topics are covered:

- Applied anatomy and physiology
- Exercise physiology
- Biomechanics
- Skill acquisition
- Sports psychology
- Sport and society
- Contemporary issues in physical activity and sport
- Performance or coaching
- Evaluation and Analysis of Performance for Improvement (EAPI)

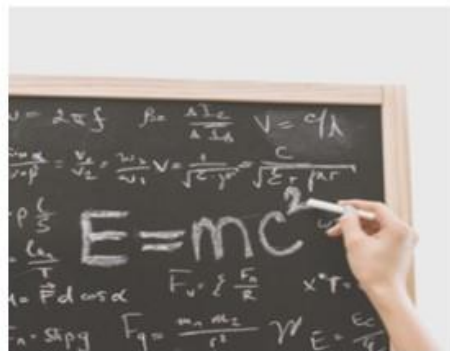
Students wishing to access the Sports Academy programme alongside their A-Level study must take this subject.

Careers: An A-Level in P.E. opens up careers in coaching or training, teaching, physiotherapy, becoming a professional sports person, sports policy at local and national level, personal trainer, diet and fitness instructor.

A-LEVEL PHYSICS



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A-Level Physics

Course Outline

Three written exams. Paper 1 will assess content from sections 1 to 6. Paper 2 will assess content from sections 6 to 8 (with assumed knowledge from sections 1 to 5). Paper 3 will assess practical skills and data analysis plus section 9. Practical work is assessed.

Across the two years of study the following topics are covered:

1. Measurements and their errors
2. Particles and radiation
3. Waves
4. Mechanics and materials
5. Fields and their consequences
6. Electricity
7. Nuclear physics
8. Further mechanics and thermal physics
9. Turning points in physics

Physics fits in well with other natural sciences and, while not absolutely essential at A Level, Mathematics is recommended if considering studying Physics at university.

Careers: Physics is highly regarded as a sound basis for employment in many areas. By entering the world of Physics you will be equipping yourself to play a leading role in the complex world of tomorrow: astronomer, clinical scientist, medical physics, geophysicist, metallurgist, meteorologist, nanotechnologist, nuclear engineer.

A-Level Politics



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The specification has been designed to encourage interest in, and enthusiasm for, the study of Government and Politics and will enable students to develop an insight into political beliefs, central to an understanding of the modern world. The first year of the course provides an introduction to the subject through an examination of UK political procedures and institutions such as democracy and political participation, party policies and ideas and key institutions.

The second year course allows more specialisation requiring more skills analysis and evaluation and offers a choice of topics: UK and EU Political Issues; Political Ideologies; US Politics and Global Politics. Students will be given the opportunity to engage in contemporary political debates throughout the course.

Careers: civil service fast streamer; government social research officer; policy officer; political risk analyst; politician's assistant; public affairs consultant.

Post 18 (with a degree in Government and Politics): A politics degree opens doors to a broad range of careers, including political work, social and political research, journalism, HR and marketing. Careers where your degree would be useful include: business development manager; charity officer; detective; diplomatic service officer; forensic accountant; human resources officer; local government officer; market researcher; marketing executive; newspaper journalist; public relations officer; stockbroker.

A-Level Psychology



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Psychology is the study of the human mind and behaviour, offering the chance to explore unanswered questions about the brain, such as how it functions under stress, how it learns language, how it remembers facts or how mental illness can affect the way it works.

Paper one includes a number of topics such as: social influence comprising conformity and obedience; memory, including the study of theories related to memory; as well as eyewitness testimony and explanations of attachment.

Paper two covers a number of different psychological approaches: psychopathology; abnormality and mental health; and the biopsychology of stress. Students will also gain an excellent grounding in data analysis and research methodology.

Paper three covers a number of optional topics such as cognition and development, aggression, forensic psychology, relationships and stress.

Careers: psychologist; psychotherapist; social worker; counsellor; educational psychologist; human resource manager; teacher; research roles; media roles.

Post 18 (with a degree in Psychology) During your psychology degree you can choose to specialise in specific areas of psychology such as health, clinical, educational, research, occupational, counselling, neuro, sport and exercise, and forensic.



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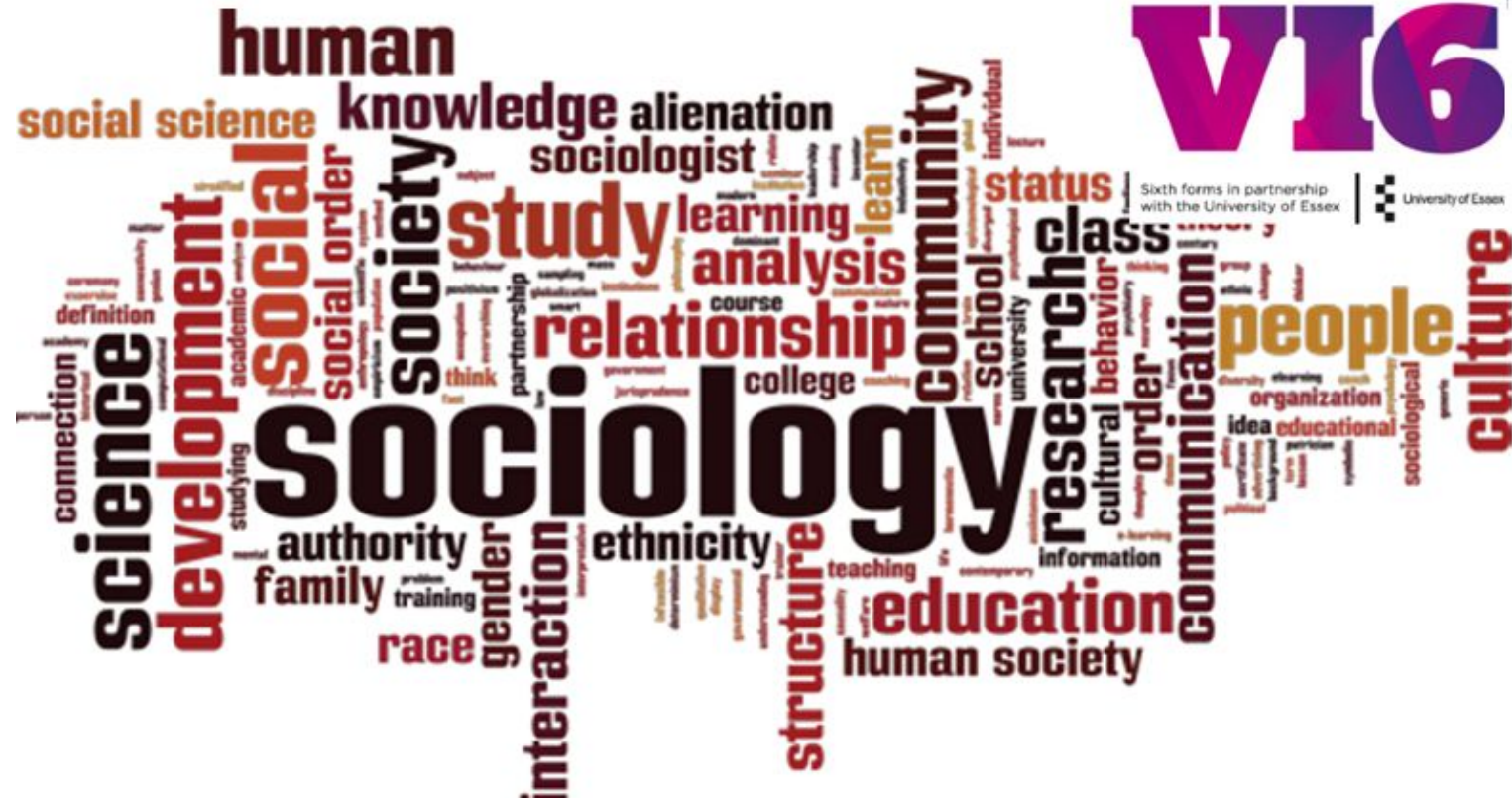
Unit one centres on Education. Students will study topics such as the role and functions of the education system including its relationship to the economy and to class structure, and differential educational achievement of social groups by social class, gender and ethnicity in contemporary society.

Unit two covers Families and Households where students will study the issues relating to changes in family and household structure and the impact this has had on society.

Unit three covers the Sociology of Beliefs. Students will consider and analyse the enduring and widespread influence of religion in the modern world, and also how ways in which people worship and have spiritual beliefs has changed.

Unit four covers Crime and Deviance. In this unit, students will consider different explanations of crime and deviance and how various forms of behaviour become labelled as deviant, and how society controls its members.

Careers: Advice worker; community development worker; social worker; higher education lecturer; housing manager/officer; marketing executive; police officer; policy officer; secondary school teacher; social researcher; Human Resources and Personnel Management; youth worker.



Offered as
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provision at
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A-Level Spanish



VI6

Sixth forms in partnership
with the University of Essex



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A-Level Spanish -Course Outline

A Level Spanish enables students to develop an advanced level knowledge and understanding of the Spanish language, the culture of Spain and other Spanish-speaking countries, as well as practical and valuable language and transferable study skills. In Year 12 you will study two themes: **Social Issues and Trends** and **Artistic Culture** covering topics such as the changing nature of families and the place of information technology in society, as well as things that young Spanish people really like such as music and films. Students will study many interesting aspects of life in society such as youth unemployment, recent history, poverty in South America, regional languages, and gay rights. These topics will give students a deeper insight into the Spanish-speaking world. In Year 13 you will study a book and themes to topics such as immigration and law and order. There is also the opportunity to research a topic related to Spain or Spanish-speaking communities that is particularly interesting to you.

You will be examined through three papers:

Paper 1: Listening, Reading and Writing (translations) 50% of the A Level.

Paper 2: Writing (one book and one film) 20% of the A Level.

Paper 3: Speaking (discussion of a subtheme and presentation of an individual research project) 30% of the A Level.

Careers: Some Spanish graduates use their language skills as translators, interpreters or teachers. Others embark on careers in areas ranging from banking to tourism, and preservation, TV and social media platforms.

BTEC National Extended Diploma in Sports Coaching and Development



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BTEC National Extended Diploma in Sports Coaching and Development

Course Outline

The BTEC Sport qualification is the equivalent of three A-Levels and can be used as a pathway to higher education in a sport-related field or as a stepping stone into employment or an apprenticeship within the sports sector, public services and other careers. This BTEC is a diverse qualification with 12 units. These are completed across the 2 years of study and are teacher assessed and externally moderated by the examination board. There are no formal examinations. The course blends vocational and academic content. Students have access to the Northern Gateway Sports Park as part of their studies.

Across the two years of study the following topics are covered:

- Fitness Testing
- Fitness Training
- Developing Coaching
- Health, wellbeing and sport
- Sports Development
- Careers in Sport
- Self employment in sport
- Practical Sports application
- Applied Coaching Skills
- Rules, regulations & officiating
- Sports Injuries
- Research project in Sport

Careers: Sports coach, Sports Development Officer, PE Teacher, Performance Analyst, Physiotherapist, Personal Trainer, Sports Journalism, Sports Lawyer, Sports Centre Manager, Health and Hospitality, Sports Therapist, Sports Marketing.