

**Qualification** BTEC Level 3 National Extended Certificate in Applied Science

**Exam Board** Pearson Edexcel

**Course Specific Entry Requirements** Grades 5-5 or above in GCSE Combined Science **or** Grade 5 or above in GCSE Biology, GCSE Chemistry **and** GCSE Physics

### Overview

The BTEC Level 3 National Extended Certificate in Applied Science is a practical based course of study which will develop your skills and confidence in the laboratory as well as teaching you the theory required to succeed. The course consists of four units, of which three are mandatory and two are externally assessed. Completion of all four units is required in order to qualify for certification.

### What will I learn?

In the **first year** of the course you will study:

- ▲ **Principles and Applications of Science** (*externally examined unit*)
- ▲ **Practical Scientific Procedures and Techniques** (*internally assessed portfolio*)

In the **second year**, you will learn about:

- ▲ **Science Investigation Skills** (*externally assessed practical skills assessment*)

You will also study a choice of **one unit** from the following (*internally assessed portfolio*)

- ▲ Physiology of Human Body Systems
- ▲ Human Regulation and Reproduction
- ▲ Biological Molecules and Metabolic Pathways
- ▲ Genetics and Genetic Engineering
- ▲ Diseases and Infections
- ▲ Applications of Inorganic Chemistry
- ▲ Applications of Organic Chemistry
- ▲ Electrical Circuits and their Application
- ▲ Astronomy and Space Science
- ▲ Microbiology and Microbiological Techniques

### How will I learn?

Your lessons will take many forms, with a heavy emphasis on practical skills, and will involve a range of interactive teaching and learning strategies. There may be lectures, seminars, discussion groups in addition to the practical work. You will be expected to read journals, engage in debate and to take an active part in your own learning.

### Where could it lead?

The natural progression from this qualification is to Higher Education, Further Education or employment. Former students have gone on to study nursing, midwifery, social work and sport sciences. YouGov research reveals that 62% of large companies have recruited employees with BTEC qualifications. What's more, well over 100,000 BTEC students apply to UK universities every year and their BTEC Nationals are accepted by over 150 UK universities and Higher Education institutions for relevant degree programmes either on their own or in combination with A Levels.

**Qualification** BTEC Level 3 National Extended Certificate in Business

**Exam Board** Pearson Edexcel

**Course Specific Entry Requirements** If you study GCSE Business Studies, you must achieve a Grade 5 or above. It is not necessary to have studied Business at Level 2

### Overview

The BTEC Level 3 National Extended Certificate in Business is designed to sit alongside other Level 3 courses, either academic or applied, as part of your Study Programme. It is aimed at those students who have an interest in business and learning more about the business sector. It provides opportunities to investigate real life scenarios and contexts, enabling you to tailor the course to your individual areas of interest. As with other BTEC courses, you will be required to study a number of mandatory units in addition to an optional unit which is selected on the basis of students' areas of interest.

### What will I learn?

The BTEC Level 3 National Extended Certificate in Business is comprised of four units. Three are mandatory units, two of which are assessed externally, and the final unit allows for a degree of student choice.

The **mandatory** units are:

- ▲ Exploring Business
- ▲ Developing a Marketing Campaign
- ▲ Personal and Business Finance

Possible **optional** units are varied and include:

- ▲ Recruitment and Selection
- ▲ Investigating Customer Service
- ▲ Market Research
- ▲ The English Legal System
- ▲ Work Experience in Business

### How will I learn?

Lessons will reflect the varied style and nature of the assessment of the BTEC course. You will be required to apply what you have learned in the classroom to a range of business contexts. Investigation into the business world will be a key element of this course, with students exploring approaches used by different firms to achieve their aims. You will need to take an active role in your learning, involving yourself in discussion and debate as well as presenting your ideas to the class on occasions. A keen interest in the world around you and, specifically, the business world, is essential.

### Where could it lead?

The course content has been developed in collaboration with both universities and leading organisations in order to ensure progression both for those students wishing to enter Higher Education and for those who want to move directly into employment in the business sector. Business and business related courses at Higher Education are diverse and highly sought after. This course will equip you with the independence of learning and resilience required for degree courses at university. Equally, the course modules are recognisable to employers, who were consulted in the development stage to ensure the programme of study provides high calibre employees of the future.

**Qualification** Level 3 Diploma in Food Science and Nutrition

**Exam Board** WJEC

**Course Specific Entry Requirements** If you study Food Preparation and Nutrition or Hospitality and Catering, at Level 2, you must achieve a Grade 5 or above **or** a Merit or above. However, it is not necessary to have studied these subjects at Level 2

### Overview

This qualification offers you the opportunity to acquire knowledge and understanding through purposeful, work-related contexts linked to the food production industry and leads to many employment opportunities within the field of food science and nutrition. An understanding of food science and nutrition is relevant to many industries and job roles. Care providers and nutritionists in hospitals use this knowledge, as do sports coaches and fitness instructors. Hotels and restaurants, food manufacturers and government agencies also use this understanding to develop menus, food products and policies that support healthy eating initiatives.

### What will I learn?

- ▲ **Unit 1 Meeting the Nutritional Needs of Specific Groups** (*internally and externally assessed*)  
The purpose of this unit is for you to develop an understanding of the nutritional needs of specific target groups and plan and cook complex dishes to meet their nutritional needs. It will enable you to demonstrate an understanding of the science of food safety, nutrition and nutritional needs in a wide range of contexts.
- ▲ **Unit 2 Ensuring Food is Safe to Eat** (*externally assessed*)  
You will develop an understanding of hazards and risks in relation to the storage, preparation and cooking of food in different environments and the control measures needed to minimise these risks. From this understanding, you will be able to recommend the control measures that need to be in place, in different environments, to ensure that food is safe to eat.
- ▲ **Unit 3 Experimenting to Solve Food Production** (*internally assessed*)  
The aim of this unit is for you to use your understanding of the properties of food in order to plan and carry out experiments. The results of the experiments would be used to propose options to solve food production problems
- ▲ **Unit 4 Current Issues in Food Science and Nutrition** (*externally assessed*)  
Through this unit, you will develop the skills needed to plan, carry out and present a research project on current issues linked to issues related to food science and nutrition. This could be from the perspective of a consumer, food manufacturer, caterer and/or policy-making perspective

### How will I learn?

Practical and theoretical sessions will support the development of your theoretical knowledge and ensure learning is a tactile experience. Regular practical sessions will allow you to gain practical skills to produce quality food items to meet the needs of individuals. The two optional units will allow you to study subjects of particular interest or relevance to you, building on previous learning and experiences. The applied purpose of each unit requires you to consider the application of your learning on yourself, other individuals, employers, society and the environment. It requires you to develop independent learning skills, problem solving skills, presentation skills and project based research skills. The fundamental ability to work alongside other students, in a professional environment, will be central to how you learn on this course.

### Where could it lead?

The WJEC Level 3 Certificate in Food Science and Nutrition has been designed to provide you with underpinning knowledge, understanding and skills to progress to further study and training. Together with other relevant qualifications at Level 3, you will gain the required knowledge to be able to use the qualification to support entry to higher education courses such as degrees in Food and Nutrition, Human Nutrition, Public Health Nutrition and Food Science and Technology.

**Qualification** BTEC Level 3 National Extended Certificate in Information Technology

**Exam Board** Pearson Edexcel

**Course Specific Entry Requirements** If you study Information Technology at Level 2, you must achieve a Merit or above. However, It is not necessary to have studied Information Technology at Level 2

### Overview

We live in a digital world. Understanding how the technology that runs our world works will give you the advantage in whichever job sector you decide to work. BTEC Level 3 Information Technology is an extremely versatile subject to choose and provides a progression route to many Higher Education courses. This new and exciting course has been developed in collaboration with employers, representatives from Higher Education and relevant professional bodies to ensure the content is current and relevant and to ensure that you are well equipped when you leave the course and continue onto your next pathway.

### What will I learn?

BTEC National Extended Certificate in Information Technology comprises of four units of work completed over two years:

#### ▲ **Information Technology Systems** (*externally assessed examination*)

You will explore the relationships between the hardware and software that form an IT system, and the way that systems work individually and together, as well as the relationship between the user and the system. You will examine issues related to the use of IT systems and the impact that they have on organisations and individuals.

#### ▲ **Creating Systems to Manage Information** (*externally assessment of work carried out under supervision*)

You will examine the structure of data and its origins, and how an efficient data design follows through to an effective and useful database. You will examine a given scenario and develop an effective design solution to produce a database system. You will then test your solution to ensure that it works correctly. Finally, you will evaluate each stage of the development process and the effectiveness of your database solution.

#### ▲ **Social Media in Business** (*internally assessed coursework*)

You may be familiar with social media for personal use and in this unit you will discover how it can be used in a business context. You will explore different social media websites, the ways in which they can be used and the potential pitfalls when using them for business purposes. You will develop a plan to use social media strategies for business purposes to achieve specific aims and objectives. You will then implement the plan, developing and posting content and interacting with others. Finally, you will collect data on the business use of social media and review the effectiveness of your efforts.

#### ▲ Optional Unit: **Data Modelling** or **Website Development** (*internally assessed coursework*)

### How will I learn?

You will be expected to contribute your opinions and work collaboratively with your peers. An interest in technology is required and an enthusiasm to learn about how the digital world works is essential. You will enjoy a hands on approach to learning where you can put into practice the knowledge you are learning. A mixture of theory and practical lessons will make for a rich and stimulating learning environment.

### Where could it lead?

Careers for those with qualifications in IT are diverse and the course forms a solid grounding for both further study and a range of careers. The skills and knowledge you will develop whilst following the IT course will enhance your application into any sector of employment. Higher Education welcomes IT as a qualification that can enhance a range of other subjects. IT based higher education courses are hugely diverse: you could go on to study Computer Science, Games Design, Web design, the list is huge! Apprenticeships in IT are another option and this qualification shows potential employers that you have a broad range of skills.

## MATHEMATICAL STUDIES (CORE MATHS) Level 3 Certificate

**Qualification** Level 3 Certificate in Mathematical Studies

**Exam Board** AQA

**Course Specific Entry Requirements** Grade 5 or above in GCSE Mathematics. This one year course **must** form part of a Study Programme comprising at least three other two-year, Level 3 qualifications. You will need a scientific calculator throughout the course

### Overview

Level 3 Certificate in Mathematical Studies (Core Maths) is a one year Level 3 Mathematics course for students who have passed GCSE Mathematics at Grade 4 or above but are not taking Advanced Level Mathematics. The aim is for you to retain, deepen and extend your mathematical understanding through solving meaningful and relevant problems, building upon your understanding at GCSE level. It is anticipated that this course will be particularly beneficial to you if you require a good level of mathematical skill for concurrent and future courses. The course sets out to use a problem solving approach to teach applied areas such as data handling (relevant to Geography, Psychology, Business and Sciences), decision maths (relevant to many business related subjects and computing), personal finance (including calculating income tax and National Insurance), and critically analysing statistics and graphs often used in the media. This course will give you confidence with numerical techniques required at degree level or in future employment. Taken alongside a Tech Level subject and Extended Project, it contributes to achievement of the Technical Baccalaureate.

### What will I learn?

Approximately 75% of the course is based on elements of the new GCSE course, with emphasis on real life application. New mathematical content that you will learn includes:

- ▲ Modelling
- ▲ Financial problem solving
- ▲ Critical maths

The course is assessed through two written papers at the end of the year. **Paper 1** assesses compulsory content including Financial Mathematics and Data Analysis, whilst **Paper 2** will focus on critical analysis, probability and decision maths.

### How will I learn?

Core Maths builds on GCSE Maths with sharper focus on problem solving skills by considering and tackling mathematics in meaningful contexts. These meaningful contexts may take the form of projects that run over a series of lessons and will be driven, as much as possible, by the interests of the students themselves. The mathematical content required for examination will therefore often be taught within the context of the projects. There will be opportunities to develop your IT skills using spreadsheets and Excel.

### Where could it lead?

This is a problem solving course and hence will form the bedrock of many careers and different types of employment (many of which might not yet exist!) as a supporting subject. The course will also prepare you for the mathematical demands of many degree courses, such as Geography and Psychology, for which the mathematical understanding required is high, but not as substantial as in Advanced Level Mathematics.

**Qualification** BTEC Level 3 National Extended Certificate in Music

**Exam Board** Pearson Edexcel

**Course Specific Entry Requirements** Grade 5 or above in GCSE Music **or** Merit or above in Level 2 RSL or BTEC Music **or** Grade 4 standard in any instrument

### Overview

This course is designed to give you the practical skills and knowledge you will need to succeed in the challenging and competitive world of Music. The programme covers a broad basis of study for the music sector with a focus on performance, personal instrumental technique development, music theory and professional practice. This BTEC level 3 will be of particular interest to students who play a musical instrument and are interested in furthering their performance skills. In addition, there will be an opportunity to study composing in a variety of genres.

### What will I learn?

There are four units:

- ▲ **Practical Music Theory and Harmony:** explore music theory through a range of practical and theoretical tasks to improve your musicianship.
- ▲ **Ensemble Music Performance:** you will develop your group performance skills and improve your own instrumental technique through rehearsals, workshops, recording and live performance.
- ▲ **Professional Practice in the Music Industry:** you will learn the key skills required to work in the UK's most successful industry. Learners will have the opportunity to plan, organise and lead on performances and recording sessions.
- ▲ **Optional solo or composition unit:** you will be given the freedom to choose your creative pathway and work on an individual project that is suited towards your musical strengths.

### How will I learn?

You will work independently and collaboratively on musical performances and research into the industry. You will be given the opportunity to perform as a soloist and a member of the group and are expected to rehearse your chosen instrument regularly. You will have access to the Mac suite where you will compose using Sibelius and Logic music software.

### Where could it lead?

The BTEC Music qualification could lead you to a range of careers in the ever-growing music Industry and develop transferable and higher order skills that are valued by Higher Education and employers.

**Qualification** BTEC Level 3 National Extended Certificate

**Exam Board** Pearson Edexcel

**Course Specific Entry Requirements** Grade 5 or above in GCSE Drama **or** Merit or above in Level 2 Performing Arts **or** a wide experience of performing in public.

### Overview

BTEC Level 3 National Extended Certificate in Performing Arts qualification provides students with the opportunity to develop and enhance their knowledge and understanding of Drama and Movement through a range of units that provide a vocational setting to the work. The Extended Certificate is worth the equivalent of one A Level. All lessons are delivered by subject specialists and will prepare students for a possible future in the Performing Arts industry. The choice of qualification allows students to select a Performing Arts pathway that reflects their intention beyond the Sixth Form.

### What will I learn?

In this course you will study **four** units, all related to an aspect of Theatre:

- ▲ Investigating Practitioners' Work
- ▲ Developing Skills and Techniques for Live Performance
- ▲ Group Performance Workshop
- ▲ Acting Styles

### How will I learn?

All units have a predominantly practical and vocational focus. Each term will culminate in a public performance of the work created, with the additional opportunity to be part of the whole College show. Chances to develop as a performer are abundant! Performing Arts students are also given the opportunity to help co-ordinate and run Drama Clubs for younger students. This is an excellent opportunity which provides great experience for any students thinking about a career in education.

### Where could it lead?

A qualification in Performing Arts opens many doors. Whether you are planning to progress to Higher Education, an apprenticeship or employment, with Performing Arts now one of the fastest growing industries in the United Kingdom, there has never been a better time to study the arts.