



YEAR 12 HANDBOOK – SEPTEMBER 2019



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WORD FROM THE HEADTEACHER

This prospectus outlines the extensive provision offered in the Sixth Form at Ysgol David Hughes. We are especially proud of our Sixth Form students and their continued success both academically and in terms of their personal development.

High quality teaching combined with a passion for learning ensures we consistently achieve excellent A Level and AS results. Matching this with exceptional care, guidance and support ensures that our students work hard, enjoy their learning and are accepted onto university courses and careers of their choice.

Students at Ysgol David Hughes work very well with committed teachers who have long experience and expertise in their subjects. We offer a very broad and varied curriculum including A Levels as well as vocational courses, some in collaboration with local partners.

We have excellent facilities across the school and within the designated Sixth Form Centre creating a supportive and positive learning environment in which students excel.

We want all our students to be proud to be a part of our community at Ysgol David Hughes. We want our students to feel safe and that they belong. We also want to support them in becoming independent learners and understand that through effort, hard work and commitment anything is possible.

By joining our sixth form we believe we will set you on the path to an exciting and successful future.

WELCOME TO 16+ EDUCATION

The aim of 16+ Education is to prepare you as an individual for a purposeful future. We hope to see you mature academically, personally and socially during your time in Years 12 + 13.

There will inevitably be among you vast ranges of ability, qualifications, needs and interests but, at all times, we seek to consider what is best for you as an individual within your course of study and it is essential that you yourselves do likewise.

Your motivation is crucial to your success now and in later years. What subjects do you enjoy? Do you have an aim in mind? How determined are you to succeed in achieving your aim? Are you prepared to sacrifice to that end or are you drifting aimlessly? Are you returning to school under duress or because you can think of nothing better to do? Think carefully now. Don't choose a course because you have a friend following that course. Consider carefully what is best for you. At the moment you are standing on the threshold of the future and your decisions now are of paramount importance.

We hope that the information that you glean from reading the following pages will help you to embark upon a meaningful and successful journey into your future.

2018-2019 PREFECTS



Llinos Williams



Gwyn Thornton



Adam Kempton



Iestyn Jones



Guto Tegid



Lewis Davies

PERSONÉL SY’N YMWNEUD AG ADDYSG ÔL 16
PERSONNEL INVOLVED WITH 16+ EDUCATION

—◆—

Pennaeth Blwyddyn 12 a 13

Head of Years 12 and 13

Mrs Manon Davies

—◆—

Dirprwy Bennaeth Blwyddyn 12 a 13

Deputy Head of Years 12 and 13

Mrs Delyth Williams

—◆—

Pennaeth Cynorthwyl â chyfrifoldeb penodol am Flwyddyn 12 a 13
Assistant Headteacher with specific responsibility for Years 12 and 13

Mrs Meinir Davies

—◆—

Gyrfaoedd/Careers

Mrs Susan Bracegirdle

—◆—

Tiwtoriaid/Tutors

Mr Daron Harris

Mrs Helen Hale

Miss Sally A Hughes

Mrs Christina Thatcher

Mrs Helen Bebb

Mrs Sarah Parry

Mr Andrew Sharrock

Mrs Mez Saywood-Peyrasse

Mrs Mari Rhun Thomas

Mrs E Angharad Harris

—◆—

Anogwr Dysgu/Learning Coach

Mrs Arianwen Owen

—◆—

16+ CURRICULUM

INTRODUCTION

The curriculum and qualifications at Advanced Level, Advanced Subsidiary and Advanced Applied Subjects as well as the Advanced Skills Challenge Certificate (BAC) have been carefully planned to enable students to study a wide variety of subjects across a two year programme and to develop valuable skills for higher education and employment.

The Advanced Subsidiary qualification provides a course aimed at the standard usually achieved by students after a year's study in the sixth form. It is designed to offer an improved progression after GCSE and to encourage students to choose a wider range of subjects.

TEACHING TIME AND LEARNING TIME

Teaching time is the time you spend in lessons, i.e., in direct contact with your teachers. Learning time on the other hand is the time you are expected to be working and studying on your own. Your teachers will set you a variety of assignments/tasks to do. You should spend a large part of your non-contact time working in the library, in the quiet room or on the computers. It is of the utmost importance that you foster and develop a mature attitude towards your work. It is your responsibility to manage your time and ensure that you complete your work punctually.

STRUCTURE OF THE COURSES

1. Advanced Level and Advanced Subsidiary Courses

The majority of Advanced Level courses have been divided into units. The first units give an Advanced Subsidiary (AS) qualification. The other units are called A2. The AS units plus the A2 units give a full Advanced Level.

Usually the AS units will be studied in Year 12 and the A2 units in Year 13. Assessment of the AS units will be a little easier and will include structured questions and questions which require short answers. On the other hand, assessment of the A2 units, the second half of the full Advanced Level course, will be more difficult and will include questions which require extended answers and synoptic questions which assess a broader knowledge and understanding across the whole course.

End of unit examinations may be taken in June in Years 12 and 13. It is not possible to study A2 units without studying and passing AS units as well.

It is compulsory that all students pass their AS examinations in order to return to Year 13.

2. BTEC Level 3 Courses

Numerous Level 3 BTEC Subsidiary Diploma courses are offered in partnership with the other Anglesey schools and Coleg Menai. A BTEC Level 3 Subsidiary Diploma course is the equivalent of one A Level. A one year study will give the opportunity to achieve a Level 3 BTEC Certificate which is equivalent to one AS Level. The courses are assessed by a portfolio of coursework, there are no examinations. A Distinction grade in a BTEC Level 3 Subsidiary Diploma course gives **48** UCAS points.

HOW MANY SUBJECTS SHOULD YOU STUDY IN YEAR 12?

One of the Government's main reasons for introducing changes to Education at 16+ is to increase the breadth of students' education. Breadth means more variety and not more of the same kind of subjects. The number of subjects studied by each student in Year 12 will depend upon a number of factors, eg GCSE Results, the best combination for the career you have in mind.

Admission to the 6th form will be dependent on the appropriate provision for that pupil.

The subjects may be chosen from the options table – **choose one subject only from a column**. A combination of subjects within the same column is not allowed. Remember that it is possible to combine A level subjects with Applied A Level subjects. When choosing your subjects consider the following considerations carefully:-

- The advice of your subject teachers.
- The best combination for the career you have in mind. Ask for advice. You are welcome to discuss the matter with your personal tutor, careers teachers or the Head of Year 12/13.
- The subjects in which you had the best results in GCSE.
- The subjects you enjoy the most.

At the end of Year 12, or the beginning of Year 13, you will have to decide which subjects you wish to continue to study. Most will study what corresponds to three A2 subjects in Year 13.

Every pupil follows the Advanced Skills Challenge Certificate course (Welsh Baccalaureate).

ADVANCED SKILLS CHALLENGE CERTIFICATE (THE WELSH BACCALAUREATE)

The Welsh Baccalaureate is based on an Advanced Skills Challenge Certificate, which will be graded, and Supporting Qualifications. The requirements of both the Advanced Skills Challenge Certificate and Supporting Qualifications must be met in order to achieve the overarching Welsh Baccalaureate.

The primary aim is to enable learners to develop and demonstrate an understanding of and proficiency in essential and employability skills; the students gain experiences that better prepares them for Higher Education and employment.

They will have the opportunity to:-

- Work with employers
- Develop entrepreneurial skills
- Participate in a community activity
- Work independently
- Gain in confidence
- Strengthen their literacy, numeracy and digital literacy skills

The Advanced Skills Challenge Certificate is delivered through:-

- Formal lessons
- Contributions by guest speakers
- Skills days and activities
- Activities week during the summer term

The students are expected to develop seven essential skills that are so important for learning, work and life, namely:-

- Literacy
- Numeracy
- Digital Literacy
- Critical Thinking and Problem Solving
- Planning and Organisation
- Creativity and Innovation
- Personal Effectiveness

The seven skills will be assessed as the students undertake four challenges:

1. Individual Project
2. Enterprise and Employability Challenge
3. Global Citizen Challenge
4. Community Challenge

The emphasis is on applied and purposeful learning and to provide opportunities for assessment in a range of real life context through three Challenge Briefs and an Individual Project.

Each student will be supported by a personal tutor and will have access to a resource room to complete their work.



Consortiwm Addysg Ôl-16

Gwynedd ac Ynys Môn

Post-16 Education Consortium

Gwynedd and Anglesey

GWYNEDD AND ANGLESEY POST-16 EDUCATION CONSORTIUM

ESTABLISHING GWYNEDD AND ANGLESEY AS AN AREA OF EXCELLENCE FOR POST-16 LEARNING

The Post-16 Education Consortium for Gwynedd and Anglesey has been established with European funding to help plan and develop education and training for learners on post-16 courses. The Consortium has the important task of co-ordinating the work of 16 partners to ensure more cost efficient and effective collaboration for the benefit of post-16 learners. This unique project covers two Education Authorities, (Gwynedd and Anglesey); the area's College of Further Education, (Llandrillo Menai Group); and 12 secondary schools with Sixth Form students.



On the 30th of May 2014 the Gwynedd and Anglesey Post-16 Consortium was officially launched by the First Minister of Wales, Carwyn Jones at the Meirionnydd Urdd Eisteddfod in Bala. During his speech the First Minister said, "I am pleased to see that EU funds

are helping to forge a spirit of partnership to ensure excellence in education and training for the young people of Gwynedd and Anglesey so that they can improve their career prospects and achieve success in the work-place."

What is the aim of the Gwynedd and Anglesey Post-16 Education Consortium?

To establish Gwynedd and Anglesey as an area of excellence in post-16 learning by:

- Reducing duplication by organisations, and to deliver enhanced outcomes for young people
- Maintain high levels of attainment for learners at post-16
- Widen the choice for learners at post-16 and respond to local labour market needs
- Widen the participation of learners at post-16 and respond to the agenda on poverty and deprivation
- Enhance Welsh-medium and bilingual provision and promote and strengthen Welsh as a learning medium

What does the Consortium mean for you?

You are able to study different and exciting new courses and solve the problem of a clash in your option choices by going to another school or college to study one course. This will enable you to study the courses you want to do which will lead to a career in the area of your choice. The Post-16 Education Consortium offers a list of partnership courses between the schools and colleges in your area, including AS Level, A Level and BTEC courses.

You can find the list of courses available to you in the Consortium's prospectus. Ask your Deputy Head Teacher, Assistant Head Teacher or Head of 6th Form for a copy.



ADVANCED AND ADVANCED SUBSIDIARY SUBJECTS OFFERED IN PARTNERSHIP WITH OTHER ANGLESEY SCHOOLS AND COLEG MENAI

AS, A Level and BTEC provision in certain subjects will be offered in partnership with other Anglesey schools and Coleg Menai.

The subjects offered will be:-

| Qualification | Subject | Location |
|----------------------|--------------------------------------|-------------------------|
| AS/A | German | Ysgol David Hughes |
| AS/A | French | Ysgol David Hughes |
| AS/A | Drama | Ysgol David Hughes |
| AS/A | Geography | Ysgol David Hughes |
| AS/A | Music | Ysgol David Hughes |
| AS/A | Health and Social Care | Ysgol David Hughes |
| AS/A | Law | Ysgol David Hughes |
| AS/A | Further Mathematics | Ysgol David Hughes |
| AS/A | Welsh Second Language | Ysgol Uwchradd Caergybi |
| AS/A | Computer Science | Ysgol Gyfun Llangefni |
| BTEC Level 3 | Creative Media – Television and Film | Coleg Menai, Llangefni |
| BTEC Level 3 | Creative Media – Games Development | Coleg Menai, Llangefni |
| BTEC Level 3 | Music Technology | Coleg Menai, Bangor |
| BTEC Level 3 | Mechanical Engineering | Coleg Menai, Llangefni |
| BTEC Level 3 | Civil Engineering & Construction | Coleg Menai, Llangefni |

Details of the individual subjects are found with the other subject descriptions. The number of places available on the courses listed is obviously limited.

Teaching of these subjects takes place in morning and/or afternoon sessions. As well as this time students will be expected to do some work at school. Arrangements will be made to transport the students from the school to the location of study and back to their school.

UCAS POINTS

The Government has revised the points system for entry to Higher Education. Since September 2016 grades A* → E are worth the points shown in the table below.

| SAFON UWCH/UG A CYMHWYSOL UWCH GCE A/AS and ADVANCED APPLIED | | | | |
|---|--|--|--|---------------------------------------|
| UWCH GYFRANNOL AS LEVEL | LEFEL A A'R BAC A LEVEL AND BACC | TARIFF NEWYDD NEW TARIFF POINTS | BTEC DIPLOMA ATODOL SUBSIDIARY DIPLOMA | BTEC TYSTYSGRIF CERTIFICATE |
| | A* | 56 | D* | |
| | A | 48 | D | |
| | B | 40 | | |
| | C | 32 | M | |
| | | 28 | | D* |
| | D | 24 | | D |
| A | | 20 | | |
| B | E | 16 | P | M |
| C | | 12 | | |
| D | | 10 | | |
| | | 8 | | P |
| E | | 6 | | |

ENRICHMENT

WORK EXPERIENCE

In July, students have five days of work experience. The kind of experience obtained in Year 10 should not be repeated in Year 12, unless there is a valid reason for doing so. Students should consult their subject teachers and their form-tutors as they try to decide upon their area of experience.

A decision should be made on the basis of one of the following:-

- To develop 'core skills' e.g. communication, problem-solving, use of leisure
- The experience would be associated with their choice of career
- The experience would enable them to complete a project/course work.

Every pupil is responsible to arrange their own work experience placement.

VOLUNTARY WORK / GAINING RELEVANT EXPERIENCE

The school is prepared to release Year 12 and 13 students to partake in voluntary work or to gain relevant experience. Naturally this can only take place during non-contact time and on one morning/afternoon per week. Universities prefer students who have looked for and experienced a variety of opportunities. This will help your case immensely.

RESOURCES

RESOURCE CENTRE/LIBRARY

We trust everyone will take full advantage and make good use of the school's Resource/Library Centre. Here you can read background literature on your chosen subjects, refer to encyclopaedia and consult reference books, and also make your own additional notes on aspects of the syllabus. Here too you can revise and learn your work. You will have to work independently in University – so start now!

There are definite rules regarding the use of the Resource/Library Centre. Silence is the golden rule. It is emphasised that this rule must always be kept to ensure fair play for everyone.

No one will be allowed to take reference books out of the Resource/Library Centre and the appropriate channels must be used for any other book you wish to borrow.

We aim to assist you in adapting naturally to the life of a wise and prudent student, and to encourage you to be self-disciplined - something which is difficult for adults to practise, despite good intentions but which is crucial for success.

INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

In our modern, high-speed world of computers, Internet and E-mail, those who can handle the technology to find and use information effectively have a distinct advantage.

The school has made a major investment to extend its computer network and provide fast Internet access around the school. Computers are available for Year 12/13 in the library and in the 6th Form Ganolfan, along with a number of laptops which the students can borrow or individuals can bring their own laptops to school. There are lockers available to keep them secure.

CAREERS EDUCATION AND GUIDANCE

Careers Education and Guidance is a continuous process in the career development of all students and it is important for you to maintain in close contact with the department throughout the two years.

Information on all courses in Colleges of Higher Education, and Universities is available in the prospectus of each institution in the Careers Centre. In addition there is information about training, Apprenticeships and job opportunities locally and nationally. The Careers Company publish a book on all post 17 options and a Careers Advisor will be available to interview Year 12 and 13 students.

There is a special emphasis on individual counselling and we offer assistance, advice and careers information to all members of Years 12 and 13 and the careers room, 115 is open at all times.

WELFARE

We encourage our students to talk to any member of the 6th Form Team if they have any concerns regarding their health or their work. Parents are also most welcome to contact us so that we can give our students the best possible support.

EDUCATIONAL MAINTENANCE ALLOWANCE

If you remain in education past the statutory school leaving age [16] you might be eligible to apply for an EMA. You can receive up to £60 to your bank account every fortnight to help you with the cost of continuing with your education.

Detailed information is available in the EMA Wales application pack available from school or visit the website www.ema.direct.gov.uk.

RULES

The general school rules will apply to post 16 students but it is hoped that self discipline will be the motivating force in your behaviour.

| |
|---|
| <p style="text-align: center;">RESPECT IS THE KEYWORD RESPECT FOR PEOPLE AND PROPERTY</p> |
|---|

PRIVILEGES

- YEAR 12+13 CENTRE** - This is an informal work room with access to computers, including internet access for using personal devices under the Bring your own Device Policy. We expect you to treat the building and the furniture with respect.
- REGISTRATION** - Every pupil must register promptly at 8.50 am and at 1.35 pm, unless you have a lesson.
- LEAVING THE SCHOOL DURING THE DAY** – Year 12 students who have no lessons for one whole morning or one whole afternoon are permitted to stay at home to work for one session only each week IF THIS ARRANGEMENT MEETS WITH YOUR PARENTS APPROVAL. Please see the copy of the official contract which has been approved by the school governors.

SCHOOL UNIFORM

Every post 16 student should be an example to younger pupils in the way they dress. The school uniform which has been approved by the Governors will be compulsory for all Year 12 and 13 students. The students are asked to wear **plain** black trousers or skirts (knee length), white shirt, V-neck jumper with Year 12/13 Ysgol David Hughes logo and official Ysgol David Hughes tie. We request that students wear **black footwear**. A 'dark' coloured coat will be necessary during wet and/or cold weather.

THE NEXT STEP

INFORMATION AND ADVICE ABOUT ENTRY TO HIGHER EDUCATION

The purpose of Year 12 + 13 is to prepare you for taking your next step into the future. Only you can make the important decisions ahead of you but each person mentioned in the personnel team on page 3 is willing to advise and assist you at any time. **If you need help, ask!**

We have two counselling systems working simultaneously - a formal and an informal system.

FORMAL

1. **Handbook** - Information about everything appertaining to Years 12+13.
2. **Induction Day** - An opportunity to become familiar with the system, meet personal tutors, receive timetables, discuss courses etc.
3. **Day Of Advice On Entry To Higher Education** - Practical help with filling in forms, handbook for further assistance, advice by specialists.
4. **Parents' Evening** - Invitation for parents to hear the above advice.
5. **Transferring To Higher Education** - The school keeps a record of offers made to you from colleges - your firm acceptance and your insurance.
6. **Day Of Results** - We sincerely hope you will achieve the results you require but whatever happens, help and advice will be immediately available.

INFORMAL

Each student has a PERSONAL TUTOR who will be available to discuss problems and give advice.

CAREERS ADVICE

Appointments can be made with the career teachers.

We sincerely hope you will enjoy your post 16 career and wish you every success and blessing at the commencement of your journey into the future.



Os ydych yn bwriadu dychwelyd i'r chweched dosbarth, nodwch eich hoff ddewisiadau ar y pryd. Gall hyn newid yn dibynnu ar ganlyniadau arholiadau ac ati.

Ni chewch ddewis mwyr nag un pwnc o un golofn ----- Nid oes angen dewis pwnc o bob un golofn

If you intend returning to the sixth form please indicate your preferred option choices. This can change depending on exam results etc.

You cannot choose more than one subject from the same column ----- You do not need to choose a subject from every column

| Enw Cyntaf Forename | Enw(au) Canol Middle Name(s) | Cyfenw Surname | Dosbarth Cofrestru 11 Registration Class 11 |
|--|---|---------------------------|--|
| Opsiwn / Option 1 | Opsiwn / Option 2 | Opsiwn / Option 3 | Opsiwn / Option 4 |
| Bywydeg Biology | Saesneg English | Cemeg Chemistry | Bywydeg Biology |
| Cymdeithaseg Sociology | Ffiseg Physics | Mathemateg Mathematics | Mathemateg Mathematics |
| Gwyddoniaeth Meddygol Tyst./Dip Medical Science Cert./Dip | Dylunio a Thechnoleg Design and Technology | Hanes History | Health and Social Care |
| Almaeneg German | Addysg Grefyddol Religious Education | Business | Law |
| Ffrangeg French | Addysg Gorfforol Physical Education | Seicoleg Psychology | Further Mathematics |
| Drama | Cymraeg Ail Iaith Welsh Second Language | Twristiaeth Tourism | Cyfrifiadureg Computer Science |
| Cyfyngau - Ffilm a Theledu Media- Film and Television | Daearyddiaeth Geography | | |
| Cyfyngau – Cynllunio Gemau Media – Games Design | Cerdd Music | | |
| Technoleg Cerdd Music Technology | Peirianeg Sifil ac Adeiladwaith Civil Engineering & Construction | | |
| Peirianeg Engineering | | | |

| |
|-------------------------|
| Ysgol David Hughes |
| Ysgol Gyfun Llangefni |
| Coleg Menai |
| Ysgol Uwchradd Caergybi |



SUBJECT DESCRIPTIONS

| SUBJECTS: | AWARDING BODY | QUALIFICATION | PAGE |
|---|----------------------|---------------------------------------|-------------|
| Advanced Skills Challenge Certificate (BAC) | WJEC | Advanced Skills Challenge Certificate | 7 |
| Business | OCR | CAMBRIDGE TECHNICALS LEVEL 3 | 17 |
| Physical Education | WJEC | AS/A | 18 |
| Religious Studies | WJEC | AS/A | 19 |
| Biology | WJEC | AS/A | 20 |
| Art | WJEC | AS/A | 21 |
| Design & Technology – Product Design | WJEC | AS/A | 22 |
| Chemistry | WJEC | AS/A | 23 |
| Music | WJEC | AS/A | 24 |
| Creative Media – TV and Film | EDEXCEL | BTEC Level 3 | 25 |
| Creative Media – Games Development | EDEXCEL | BTEC Level 3 | 26 |
| Sociology | WJEC | AS/A | 27 |
| Welsh (First Language) | WJEC | AS/A | 28 |
| Welsh (Second Language) | CBAC/WJEC | AS/A | 29 |
| Geography | CBAC/WJEC | UG/AS/A | 30 |
| Drama and Theatre Arts | CBAC/WJEC | UG/AS/A | 31 |
| Physics | CBAC/WJEC | UG/AS/A | 32 |
| History | CBAC/WJEC | UG/AS/A | 33 |
| Health and Social Care | CBAC/WJEC | UG/AS/A | 34 |
| Modern Languages – German and/or French | CBAC/WJEC | UG/AS/A | 35+36 |
| Mathematics | CBAC/WJEC | UG/AS/A | 37 |
| Further Mathematics | CBAC/WJEC | UG/AS/A | 37 |
| Mechanical Engineering | EDEXCEL | BTEC Lefel/Level 3 | 38 |
| English | CBAC/WJEC | UG/AS/A | 39 |
| Psychology | CBAC/WJEC | UG/AS/A | 40 |
| Music Technology | EDEXCEL | BTEC Lefel/Level 3 | 41 |
| Law | CBAC/WJEC | UG/AS/A | 42 |
| Information and Communication Technology | CBAC/WJEC | UG/AS/A | 43 |
| Civil Engineering and Construction | EDEXCEL | BTEC Lefel/Level 3 | 44 |
| Medical Science Certificate/Diploma | CBAC/WJEC | Lefel/Level 3 Certificate/Diploma | 45 |
| Computer Science | CBAC/WJEC | UG/AS/A | 46 |
| Tourism Certificate/Diploma | CBAC/WJEC | Lefel/Level 3 Certificate/Diploma | 47 |

BUSINESS – OCR CAMBRIDGE TECHNICALS LEVEL 3 CERTIFICATE/EXTENDED CERTIFICATE

What will I learn?

The OCR Cambridge Technicals Level 3 Business Extended Certificate course consists of five units, two of which, Unit 1 and Unit 4 are studied in the first year for the certificate and the other three, Unit 2 and another 2 units, to be decided upon, in the second year as the Extended Certificate.

The Certificate units:

Unit 1 – THE BUSINESS ENVIRONMENT – Written Examination: 2 hours

Unit 4 – CUSTOMERS AND COMMUNICATION – Non-exam Assessment

The Extended Certificate units: (the above and a further 3 units)

Unit 2 – WORKING IN BUSINESS – Written Examination: 1 hour 30 minutes

And a further 2 units, to be confirmed from the following:

| Unit No | Unit Title | Assessment Type |
|----------------|---|--------------------------------|
| 3 | Business decisions | Written Examination |
| 5 | Marketing and market research | Non-examined Assessment |
| 8 | Introduction to human resources | Non-examined Assessment |
| 11 | Accounting concepts | Non-examined Assessment |
| 16 | Principles of project management | Non-examined Assessment |
| 17 | Responsible business practices | Non-examined Assessment |
| 19 | International business | Non-examined Assessment |
| 20 | Business events | Non-examined Assessment |
| 21 | Being entrepreneurial | Non-examined Assessment |

What will I need?

It is essential that you have an ability to express yourself in written form. You will be expected to have an interest in business and events in business world. You need to have an ability to undertake mathematical calculations for some units.

How will I be assessed?

There will be two written external examinations at the end of each year. The other units are non-examined assessments marked by the teacher and moderated externally.

Grades

Distinction*, Distinction, Merit or Pass.

What happens after this course?

This course is an excellent foundation for the study of Business Studies or a related area through a range of higher education courses such as degree courses in Business and Economics, Business Administration and Business Management. Also it allows progression to the next level of vocational qualifications like the BTEC Higher National.

Own Business
Accounts
Economist

Marketing
Human Resources
Researcher

Banking
Management
Advisor

Career Ideas

Want to know more?

For further information about this course, please see Ms Leah Rowlands at the school.

PHYSICAL EDUCATION

This syllabus has been designed to provide progression from GCSE and to provide a sound foundation for study in higher education. It presupposes that candidates have studied the subject at Key Stage 4; a good understanding of Biology, Chemistry and English would be of great advantage.

The theoretical components emphasise the performer and performance and encourages the application of theory into practical contexts. The syllabus takes a multi – disciplinary approach, encouraging the development of knowledge and understanding in a variety of variables that affect performance. This course is suited for the academic who is a keen performer, coach or official.

AS Unit 1

Exploring physical education

Written examination : 1¾ hours 24% of A level qualification (60% of AS qualification) 72 marks

- Exercise physiology, performance analysis and training
- Sports psychology
- Skill acquisition
- Sport and society

AS Unit 2

Improving personal performance in physical education

Non-exam assessment 16% of A level qualification (40% of AS qualification) 48 marks

Practical performance in **one** activity as a player/performer and as a coach **or** official

Personal Performance Profile - analysis of the chosen practical activity.

A level Unit 3

Evaluating physical education

Written examination: 2 hours 36% of qualification 90 marks

- Exercise physiology, performance analysis and training
- Sports psychology
- Skill acquisition
- Sport and society

A level Unit 4

Refining personal performance in physical education

Non-exam assessment 24% of qualification 60 marks

Practical performance in **one** activity as a player/performer, coach **or** official

Investigative Research - linked to the chosen practical activity.

What happens after this course?

Following year 13 you could go on to seek work in the leisure industry, or go on to Higher Education, you could follow a degree in Sport and Exercise Science. Your Schools career advisor can provide you with further ideas

Job Ideas

| | |
|---------------------------------|---------------------------------|
| Working in the fitness industry | Leisure Management |
| Fitness Instructing | Working in the Outdoor Industry |
| Sport Therapy | Physiotherapy |
| Teaching Physical Education | Coaching/Personal Training |
| Radiography | Occupational Therapy |

Want to know more?

For further information, please see Head of Department, Mr Thomas D. Williams.

RELIGIOUS STUDIES

Who chooses Religious Studies?

All kinds of people from all kinds of backgrounds. Being religious is not a prerequisite for this course – being interested in religion is. If you have followed the GCSE Religious Studies course this will be advantageous. However, this is not always essential.

What use will Religious Studies be to me in the future?

Religious Studies is a great foundation for further study and careers in a number of professions. These include social work, medicine, nursing, the legal profession, education, work in the media, VSO work and work for religious organisations. The course may also be of interest to any one hoping to travel the world.

What is the course?

Year 12 (AS)

You will be studying two modules, An Introduction to the Study of Religion and An Introduction to Ethics and the Philosophy of Religion.

An Introduction to the Study of Religion: eg, religious figures and sacred texts, religious concepts, religious life and religious practices.

An Introduction to Ethics and the Philosophy of Religion: eg ethical language, Aquinas' Natural Law and cosmological arguments for the existence of God.

Year 13 (A Level)

You will be studying a further three modules, a Study of Religion, Religion and Ethics and Philosophy of Religion.

Study of Religion: eg, significant historical developments in religious thought, and religious practices that shape religious identity.

Religion and Ethics: eg, Kant, freewill and determinism.

Philosophy of Religion: eg, ontological arguments for the existence of God, and challenges to religious belief.

How is the course assessed?

Year 12:

Summer 2020 – Written examination 1 hour 15 minutes on the module An Introduction to the Study of Religion

Summer 2020 – Written examination 1 hour 45 minutes on the module An Introduction to Ethics and the Philosophy of Religion

Year 13:

Summer 2021 – Written examination 1 hour 30 minutes on the module Study of Religion.

Summer 2021 – Written examination 1 hour 30 minutes on the module Religion and Ethics.

Summer 2021 – Written examination 1 hour 30 minutes on the module Philosophy of Religion.

BIOLOGY

This specification is divided into a total of 5 units, 2 AS units and 3 A Level units. Weightings noted below are expressed in term of the **full A Level qualification**.

For more information about the course see Mr Iwan Lewis Jones, Head of Biology.

Biology aims to:

1. Encourage and stimulate an interest in students of living organisms;
2. Develop an understanding of biological techniques in scientific areas and in biological processes;
3. Develop practical skills.

It is a qualification required for a wide range of courses ranging from medicine and dentistry to environmental degrees.

Entry requirements for the course:

A*, A or B grade at higher tier GCSE Science.

The subject is taught through the medium of English. A vast range of Welsh medium resources are available to students if they are required.

SUMMARY OF ASSESSMENT

AS Course (2 units)

| | | |
|------------------|---|--------------|
| AS Unit 1 | Basic Biochemistry and Cell Organisation | [20%] |
| | (Written examination) | |

| | | |
|------------------|--|--------------|
| AS Unit 2 | Biodiversity and Physiology of Body Systems | [20%] |
| | (Written examination) | |

A2 Course (the above plus a further 3 units)

| | | |
|------------------|--|-----------------|
| A2 Unit 3 | Energy, Homeostasis and the Environment | A2 [25%] |
| | (Written examination) | |

| | | |
|------------------|---|-----------------|
| A2 Unit 4 | Variation, Inheritance and Options | A2 [25%] |
| | (Written examination) | |

| | | |
|------------------|------------------------------|-----------------|
| A2 unit 5 | Practical Examination | A2 [10%] |
| | (Practical examination) | |

ART AND DESIGN

The Art & Design revised syllabus at AS and A Level has been designed for candidates to experience a range of art, craft and design. It has links with technology, history and the expressive and performing arts including music and drama.

The course forms a natural progression from GCSE. The work of the department is supported by additional opportunities such as visits to art galleries and museums, field trips or artist led workshops.

The AS (and later A Level) course requires a high level of self-motivation and personal input. There are opportunities to work in a wide range of disciplines including drawing, painting, printmaking and 3-dimensional construction and ICT.

The revised AS course runs from September until the following May. Initially students have the opportunity to develop a broad foundation of critical, practical and theoretical skills. This provides a sound basis for progression to the latter part of the course; the 'Personal and Creative Enquiry' where students work on subject matter that has personal significance.

The course provides an appropriate basis for progression to A level which requires greater maturity, independence and specialisation. There are two components to the A2 course; a personal investigation and a final controlled assignment.

The grade at AS is based on 100% coursework. At A Level the final grade comprises 36% Personal Investigation, 24% Externally Set Task added to 40% of the AS marks. These components are internally marked and externally moderated.

The course provides a suitable foundation for the study of Art & Design or a related area through a range of higher education courses, progression to the next level of vocational qualifications or direct entry into employment.

The department has a proven record of successful college and university applications with many of our students going on to pursue a wide range of careers including sculpture, advertising, photography, floristry, architecture, fashion/textile design, illustration, primary school teaching, history of art, art therapy, product design, theatre/costume design, graphic/web design.

DESIGN AND TECHNOLOGY – PRODUCT DESIGN

Design & Technology Product Design offers natural progression to candidates who have successfully followed a GCSE course in any of the following D&T courses: Product Design and Textiles.

- students should be enthusiastic about designing and creating products;
- be keen and willing to face challenges;
- they need creativity and imagination;
- as well as knowledge and production and designing skills.

For entry into Higher Education, A level D&T Product Design is a sound foundation for a range of creative and technology based degree courses. Here are some of the possibilities:

- engineering and architecture;
- product design and industrial design;
- jeweller and furniture design;
- Art Foundation course.

The full A level consists of the following four units:

AS Unit 1: Written paper 1, Written examination, 2 hours, 80 marks [20%]

The examination includes a mix of structured and extended writing questions assessing learners' knowledge and understanding of:

- technical principles
- designing and making principles

along with their ability to:

- analyse and evaluate design decisions and wider issues in design and technology

AS Unit 2: Design and make task, Non-exam assessment, approx. 40 hours, 80 marks [20%]

A design and make task, based on a brief developed by the candidate, assessing the candidate's ability to:

- identify, investigate and outline design possibilities
- design and make prototypes
- analyse and evaluate design decisions and wider issues in design and technology.

The design and make task will be based within the same endorsed area as the written examination.

A2 Unit 3: Written paper 2, Written examination, 2 hours 30 minutes, 100 marks [30%]

The examination includes a mix of structured and extended writing questions assessing learners' knowledge and understanding of:

- technical principles
- designing and making principles

along with their ability to:

- analyse and evaluate design decisions and wider issues in design and technology

A2 Unit 4: Design and make project, Non-exam assessment, approx. 60 hours, 100 marks [30%]

A sustained design and make project, based on a brief developed by the candidate, assessing the candidate's ability to:

- identify, investigate and outline design possibilities
- design and make prototypes
- analyse and evaluate design decisions and wider issues in design and technology.

The design and make project will be based within the same endorsed area as the written examination.

For more information contact Mr Dilwyn Jones, Head of the Technology Department.

CHEMISTRY

The specification is divided into a total of 6 units – 3 AS units and 3 A2 units.

YEAR 12 – AS level (2 units). Five grade scale A – E.

AS UNIT 1 – The language of chemistry, structure of matter and simple reactions [20%]

(Externally assessed written paper - 1½ hours, 80 marks)

This unit looks at:-

- | | |
|---|---------------------------|
| • Formulae and equations | • Basic ideas about atoms |
| • Chemical calculations | • Bonding |
| • Solid structures | • The periodic table |
| • Simple equilibria and acid-base reactions | |

AS UNIT 2 – Energy, rate and chemistry of carbon compounds [20%]

(Externally assessed written paper - 1½ hours, 80 marks)

This unit looks at:-

- | | |
|---------------------------------|---------------------------------|
| • Thermochemistry | • Rates of reaction |
| • The wider impact of chemistry | • Organic compounds |
| • Hydrocarbons | • Halogenoalkanes |
| • Instrumental analysis | • Alcohols and carboxylic acids |

YEAR 13 – A level (the above plus a further 3 units). 6 grade scale A * - E.

YEAR 13 – A level (the above plus a further 3 units). 6 grade scale A * - E.

A2 UNIT 3 – Physical and Inorganic Chemistry [25%]

(Externally assessed written paper - 1¾ hours, 80 marks)

- | | |
|--|--|
| • Redox, standard electrode potential | • Redox reactions |
| • Chemistry of the p-block | • Chemistry of the d-block Transition Metals |
| • Chemical kinetics | • Enthalpy changes for solids and solutions |
| • Entropy and feasibility of reactions | • Equilibrium constants |
| • Acid-base equilibria | |

A2 UNIT 4 – Organic Chemistry and analysis [25%]

(Externally assessed written paper - 1¾ hours, 80 marks)

- | | |
|--|----------------------------------|
| • Stereoisomerism | • Aromaticity |
| • Alcohols and phenols | • Aldehydes and ketones |
| • Carboxylic acids and their derivatives | • Amines |
| • Amino acids, peptides and proteins | • Organic synthesis and analysis |

A2 UNIT 5 – Practical examination [10%]

Experimental task (30 marks, 3 hours)

Practical methods and analysis task (30 marks, 1 hour)

MUSIC

What will I learn?

AS: Performing, Composing and Evaluating

A Level: Performing, Composing and Evaluating

How will I learn?

The lessons are held in Ysgol David Hughes as part of the Anglesey Consortium on one extended afternoon.

What will I need?

The ability to play a musical instrument or to sing as well as the ability to analyse and appreciate music by reading from a score. The ability to compose and to be creative with music.

How will I be assessed?

There will be an external examination in all three elements.

UCAS Points

An A grade in A level music is worth 48 points.

What happens after this course?

These are some of the options available after completing the course:-

- Study a degree course in Music, Music Technology, Sound Engineering or Performing.
- Study a Teacher Training course specialising in Music.
- A career as a professional musician.

Ultimately, professional qualifications can be achieved by following any of these pathways.

Career Ideas!

Music Teacher

Professional
Musician

Recording

Music
Therapist

Want to know more?

For further information about this course visit the following website:

[Adran Gerdd YDH](#)

CREATIVE MEDIA (TV and Film)

(Level 3 BTEC Subsidiary Diploma in Creative Media)

What will I learn?

The Edexcel Level 3 BTEC Subsidiary Diploma in Creative Media consists of three core units plus three specialist units for the completed qualification.

Compulsory Units: Pre-Production Techniques for the creative media industries, Communication skills for creative media production, Research Techniques for the creative media industries.

Optional Units: Understanding the TV and Film Industry, Film and Video editing techniques, Camera Techniques, Production and Presentation for the Film and TV industry, understanding Advertising and Music video production.

How will I learn?

The course is a partnership between Arfon and Môn secondary schools and Coleg Menai and is the equivalent of one A level (one year of study will give the opportunity to achieve a Level 3 BTEC Certificate, which is equivalent to 1 AS Level). You will spend a full extended afternoon (1.35pm - 5.30pm) at Coleg Menai, Llangefni site. You will also need to spend some time studying each week using Coleg Menai's online resources. Your school will arrange free transport to and from Coleg Menai. This course is a mix of practical and classroom tasks and you will get a chance to prepare and practise your skills before you are assessed so that you know and understand what you will have to do.

What will I need?

It is essential that you are interested in the creative media industry and show a strong motivation to follow the course on the extended afternoon in Coleg Menai.

How will I be assessed?

There will be no examinations but you will be continuously assessed through assessments and coursework which will be assessed by the tutor and the exam board.

UCAS Points

A Distinction* grade in the Edexcel Level 3 BTEC Subsidiary Diploma would give you 56 UCAS points.

What happens after this course?

At the end of this course, here are some of the pathways available:-

Follow further Creative Media qualifications at level 3 at Coleg Menai, eg Level 3 BTEC Diploma or Extended Diploma.

Follow a modern Degree course in Creative Media, Music Technology, Sound Engineering or Performance. Ultimately, professional qualifications can be achieved by following any of these pathways.

Career Ideas!

TV Production Assistant
Sound Engineer
TV Cameraman/woman

Web Designer
3D Animator
Interactive Media Technician

Recording Engineer
Further pathways in
Creative Media

Want to know more?

To find out more about this course, visit the following web page:

<http://www.edexcel.com/quals/nationals10/media/Pages/default.aspx>

Or contact: www.careerswales.com

CREATIVE MEDIA (Games Development)

(Level 3 BTEC Subsidiary Diploma in Creative Media)

What will I learn?

The Edexcel Level 3 BTEC Subsidiary Diploma in Creative Media consists of three core units plus three specialist units for the completed qualification.

Compulsory Units: Pre-Production Techniques for the creative media industries, Communication skills for creative media production, Research Techniques for the creative media industries.

Optional Units: Understanding the Computer Games Industry, 3D Modelling and Animation, Computer Game Engines, Computer Game Design, Sound for Computer Games, Flash for Computer Games, Designing Tests for Computer Games, Digital Graphics for Computer Games.

How will I learn?

The course is a partnership between Arfon and Môn secondary schools and Coleg Menai and is the equivalent of one A level (one year of study will give the opportunity to achieve a Level 3 BTEC Certificate, which is equivalent to 1 AS Level). You will spend a full extended afternoon (1.35pm - 5.30pm) at Coleg Menai, Llangefni site. You will also need to spend some time studying each week using Coleg Menai's online resources. Your school will arrange free transport to and from Coleg Menai. This course is a mix of practical and classroom tasks and you will get a chance to prepare and practise your skills before you are assessed so that you know and understand what you will have to do.

What will I need?

It is essential that you are interested in the creative media industry and show a strong motivation to follow the course on the extended afternoon in Coleg Menai.

How will I be assessed?

There will be no examinations but you will be continuously assessed through assessments and coursework which will be assessed by the tutor and the exam board.

UCAS Points

A Distinction* grade in the Edexcel Level 3 BTEC Subsidiary Diploma would give you 56 UCAS points.

What happens after this course?

At the end of this course, here are some of the pathways available:-

Follow further Creative Media qualifications at level 3 at Coleg Menai, eg Level 3 BTEC Diploma or Extended Diploma.

Follow a modern Degree course in Creative Media, Music Technology, Sound Engineering or Performance.

Ultimately, professional qualifications can be achieved by following any of these pathways.

Career Ideas!

TV Production Assistant

Sound Engineer

TV Cameraman/woman

Web Designer

3D Animator

Interactive Media Technician

Recording Engineer

Further pathways in

Creative Media

Want to know more?

To find out more about this course, visit the following web page:

<http://www.edexcel.com/quals/nationals10/media/Pages/default.aspx>

Or contact: www.careerswales.com

SOCIOLOGY

Why study Sociology?

The French philosopher **Auguste Comte** (1798-1857) – often called the “father of sociology” – first used the term “sociology” in 1838 to refer to the scientific study of society.

Sociology is the study of society. By that, we mean all the influences on us which make us act the way we do. Sociologists try to understand human behaviour, and to do this, they also try to understand how other people affect us.

Have you ever wondered about the full story behind the important issues in society? How will the unemployment that so many are now experiencing affects their lives, even after they have found work? Why do some children do better in schools than others? How important is social class for learning? Why do we have families? Why do the rich and powerful sometimes get away with criminal behaviour? Is the criminal justice system biased?

Sociology is a fascinating subject for people with questioning minds. Sociology trains you to answer ‘what’, ‘how’ and ‘why’ questions about human societies. It is a subject that provides a strong intellectual background for many careers e.g research, administration, police, business, education, health and welfare service, public relations, journalism etc.

Some topics that you will discuss:

‘Families are nothing other than the idolatry of duty’ – Ann Oakley, Feminist Sociologists (1944 -)

‘Crime is inevitable and can be functional for society’ – Emile Durkheim (1857-1917)

The course

AS

Unit 1 - Acquiring and Understanding Culture (Families and Households) 1 hour 15 minute written exam

Unit 2 - Understanding Society (Education) /Research Methods 2 hour written exam

A LEVEL

Unit 3 - Power and Control (Crime and Deviance) 2 hour written exam

Unit 4 - Social Inequality /Research Methods 2 hour 15 minute written exam

Summary of assessment

You will be assessed on four externally examined units.

| | |
|-----------|-----|
| AS Unit 1 | 15% |
| AS Unit 2 | 25% |
| A2 Unit 3 | 25% |
| AS Unit 4 | 35% |

WELSH (FIRST LANGUAGE)

Studying Welsh in combination with other subjects can lead to all kinds of jobs or courses, eg, law, acting, radio and television, administration, journalism, teaching, health service, social services.

The course provides an opportunity for students to become proficient in every aspect of the Welsh language, including literature and the media. The main skills involved in the course are speaking, listening, writing and reading, with emphasis on practical use of the Welsh language today and encouraging appreciation of Welsh heritage.

The specification is divided into a total of six units; three AS units [Yr 12] and three Advanced Level units [Yr 13].

Year 12 (AS Level)

Unit 1 - Film and drama study. [15%]

In this unit, students will study the film 'Hedd Wyn' and the drama 'Y Tŵr.' This will involve thorough discussion of aspects such as characters, plot and structure, as well as the language and the author's intentions.

Oral examination, assessed by an external examiner.

Unit 2 - Non-examination assessment. [10%]

There are two pieces of work to be completed— an example of extended work (chosen from a list of forms) and one example of an essay or speech expressing opinion

Internal assessment. The folio is sent to an external examiner to be moderated.

Unit 3 - Use of Language and Poetry. [15%]

Section A - Use of Language involves exercises where mistakes need to be corrected and explained, and forming sentences to convey the meaning of words.

Section B – An essay question deriving from the poems studies as part of the syllabus.

A selection of twentieth and twenty first century poems studied in the Poetry element.

Written examination (2 hours).

Year 13 (A Level)

Unit 4 - The Novel and Oracy [20%]

The novel 'Dan Gadarn Goncrit' by Mihangel Morgan will be discussed. Students will also need to make connections with other literature read.

Oral examination, assessed by an external examiner.

Unit 5 - Tales, early Welsh poetry and poems written in the 'cywydd' metre. [20%]

Students will study 'Branwen' and poems written by Aneirin and Taliesin and three 'cywydd' poems by Dafydd ap Gwilym.

Written examination (2 hours).

Unit 6 - Literature Appreciation and Use of Language [20%]

Section A – Essay - prose or poetry appreciation.

Section B - Writing a piece in a specific form, eg news bulletin, press statement, minutes of a meeting, newspaper report, instructions, short address.

Written examination (2 hours).



WELSH (SECOND LANGUAGE)

(WJEC Advanced/Advanced Subsidiary Level)

The A and AS qualification in second language Welsh includes 6 units:

- Film and oracy
- Assessment of course work
- Use of the language and Poetry
- Drama and oracy
- The short story and translanguaging
- Use of language and poetry appreciation

There will be three lessons a week taught at Holyhead High School.

During the lessons you will have an opportunity to work independently, as part of a small group or as a whole class. There will be an emphasis on the three skills – speaking, reading and writing.

You will have an opportunity to prepare and practise your skills before you are assessed, so that you know and understand what you need to do.

You will also have an opportunity to use your computer skills in research for oral or written presentations.

Want to know more?

To find out more about this course, visit the following web page: www.wjec.co.uk

GEOGRAPHY

GEOGRAPHY AS LEVEL

Unit 1: Changing Landscapes (2 hour exam, 24% of qualification)

Section A: Either coastal or glaciated landscapes (to be discussed with students)

Section B: Tectonic hazards

Unit 2: Changing places (1 hour 30 minutes exam, 16% of qualification)

Changing places: comparing two local contrasting settlements e.g. urban and rural.

Three questions on fieldwork techniques.

There will be two fieldwork days; one Physical Geography and one Human Geography, which will be preparation for the Unit 2 exam rather than presenting the investigation as a piece of coursework.



GEOGRAPHY A LEVEL

Unit 3: Global Systems and Global Governance (2 hour exam, 24% of qualification)

Section A: Water and carbon cycles (rivers and global carbon cycle)

Section B: Global Governance: Change and Challenges (globalisation, migration and governance of the Earth's oceans and pollution)

Section C: 21st Century Challenges (Synoptic question drawing on units 1, 2 and 3 with resource material given in the exam.)



Unit 4: Contemporary Themes (2 hours exam, 16% of qualification)

Section A: Tectonic Hazards

Section B: two optional themes (to be discussed with pupils)

- Ecosystems
- Economic growth and challenge: India or China or Development in an African context
- Energy Challenges and Dilemmas
- Weather and Climate

Two essay questions, one on each chosen theme.



Unit 5: Independent Investigation

Non-exam assessment 3000-4000 words, 20% of qualification.





DRAMA AND THEATRE ARTS

What Will I learn?

The A level/As level course in Drama and Theatre studies consists of four compulsory units.

Course units:-

Advanced subsidiary:

DA1 – Performance workshop (Two scenes will be performed – one set and the other devised using the methods of two different theatre practitioners)

DA2 - Text in performance (A study of two set plays from different periods in terms of characterisation and staging)
In addition there is a written review of live performances.

Advanced Level:

DA3 – Performance on a set theme (To include a written evaluation of the work)

DA4 – Text in context (A study of two set plays including consideration of the actors' performances and staging.)

How will I learn?

The course is in partnership with other schools. The lessons are held on one extended afternoon. The course is a combination of practical and classroom activities and you will have the opportunity to prepare and practise your skills before you are assessed, so that you will know and understand what you will be required to do.

What will I need?

It is essential that you show an interest in the Theatre, are prepared to go on visits to enrich your experience of live theatre and show motivation to follow the course on an extended afternoon.

How will I be assessed?

The assessment is through a combination of practical and written examinations.

UCAS Points

It is possible to gain 56 UCAS points at the end of the course.

What happens after this course?

An AS and full A Level in Drama is accepted by universities for a wide range of degree courses. It provides an excellent foundation for further academic study in the Arts. It is also an asset for those wanting to follow courses in theatre and in television.

Career Ideas!

Any work involving people!

Actor

Lawyer

Drama Therapist

Drama Teacher

Television Presenter

Researcher

Technician/Lighting designer

Technician/Sound designer

PHYSICS

Physics is one of the three basic or fundamental sciences. A study of Physics at A Level is very valuable since it develops problem solving skills, the ability to think objectively, and analytical skills. Physics provides a useful background to further study in all branches of science, including Engineering, Electronics, Mathematics, Technology, Architecture, Chemistry, Biological Science and Medicine, Robotics, and Computer science.

A good pass is needed in Double Science or Physics (GCSE), and studying AS level Mathematics is also an advantage, but is not essential.

The Course

The exciting new course offered by the WJEC includes many interesting topics such as Quantum Physics, Superconductivity, Understanding Lasers, and even Astronomy (AS Level : using radiation to gain insights into the properties and make-up of stars ; A Level : analysis of the movement of planets, stars and even galaxies leading to the idea of 'dark matter').

The WJEC also now offers 4 different 'options' (see A2, Unit 4, below). This allows the Physics Department to tailor the course in the best interests of the candidates.

AS

| | | |
|---------------|--|--------------------------|
| Unit 1 | - Basic Physics, Kinematics, Particle Physics, and Stellar radiation | AS [50%] A2 [20%] |
| Unit 2 | - Waves & Light, Electricity and circuits, Quantum Physics & Lasers, | AS [50%] A2 [20%] |

A2

| | | |
|---------------|--|-----------------|
| Unit 3 | - Circular motion, Oscillations, Thermal Physics, Radiation and Nuclear Energy ($E=mc^2$!) | A2 [25%] |
| Unit 4 | - Capacitors, Electrostatic and Gravitational Fields, Orbits and the Universe (Kepler's laws, Dark matter and Extra-solar planets), Magnetism and Induction + 1 of 4 OPTIONS : Medical Physics, The Physics of Sports, Alternating Current Theory, Energy and the Environment | A2 [25%] |
| Unit 5 | - Practical examinations in two parts | A2 [10%] |

It is hoped that the course will inspire and stimulate the students to read well beyond the set syllabus, will develop practical skills that are crucial in many disciplines in industry and work, and provides them with a firm and rigorous foundation for the future.

HISTORY

Why study history?

- You should study history if you wish to learn how and why the world and its peoples came to be as they are today.
- History students are rounded individuals who develop an understanding of both past and present.
- History trains your mind and teaches you how to think and process information.
- Because history gives us tools for analysing and explaining problems in the past, it is an essential tool for problem-solving in the present and future.
- ***History provides you with the skills employers are looking for.***

Students will study 5 units.

YEAR 12 – AS LEVEL:

Unit 1-[20%] Government, Rebellion and Society in Wales and England, c. 1485-1603:

This course will be examined in May/June 2020. The examination will last for 1 hour and 30 minutes, and students will answer two questions on the topics studied.

Unit 2 -[20%] Germany: Democracy to Dictatorship, c.1918 - 1933: Weimar and its Challenges.

This course will be examined in May/June 2020. The examination will last for 1 hour and 45 minutes and students will answer questions based on the evaluation of historical sources and interpretations of Nazi Germany.

YEAR 13 – A LEVEL:

Unit 3 - [20%] The American Century, c. 1890-1990:

This course will be examined in May/June 2021. The examination will last for 1 hour and 45 minutes.

Unit 4 - [20%] Germany: Democracy to Dictatorship, c.1933-1945: Nazi Germany.

This course will be examined in May/June 2021. The examination will last for 1 hour and 45 minutes.

Unit 5 - [20%] Historical Interpretation:

This course is an Internal Assignment, an historical investigation arising from the in-depth study of a particular topic, which the students can choose themselves. Students must work independently to produce an extended piece of writing of around 3,000 – 4,000 words based on the study of different sources. The Internal Assignment must be typed, and must be completed by Christmas 2020.

Job Ideas!

Good historians make good lawyers, politicians, managers, journalists, archaeologists, costume designers, economic development officers, architects, museum designers, teachers and much more.

The course encourages candidates to develop their capacity for critical thinking, develop their Key Skills and their ability to work with others, solve problems, debate issues and understand the process and nature of historical study. History is not an exact science. It is shades of 'grey' rather than black and white. You will be required to analyse, evaluate and interpret events and the evidence available and to reach your own judgment. You will become historians.

HEALTH AND SOCIAL CARE AS AND A LEVEL (SINGLE AWARD)

What will I learn?

AS

Unit 1 - Promoting Quality Care and Communication (examination)

Unit 2 - Health Promotion. Students will carry out and evaluate their own health promotion activity (coursework)

A2

Unit 7 - The main health, social care and children's services which meet individual needs (controlled assignment)

Unit 9 – Working in Health and Social Care (coursework)

How will I learn?

The course is based entirely in school. You'll be helped by your teachers to learn what you have to do for the assessments, and will get the chance to prepare for them beforehand. The work will involve personal investigation as well as classroom work and discussion.

What will I need?

You need to have an interest in health issues and be willing to work on your own with the commitment to meet deadlines. The coursework component is very important and it's essential that you have the ability to write clearly in either Welsh or English.

How will I be assessed?

You will be assessed for the AS through examination (40%), coursework (60%). For the A2 component you will be assessed through examination (20%), coursework (60%) and a controlled assignment which will be done under supervision in school in a set amount of time (20%).

What happens after this course?

After getting you're A level you could study health or social care related courses at University or college e.g. health studies or occupational therapy. A large number of students will pursue work in the Education sector as Teachers and Classroom Assistants. It is also possible to gain qualifications in work through apprenticeship schemes in Social Care.

Job Ideas!

- Nursing
- Social work
- Paramedic
- Occupational therapy
- Physiotherapy
- Working with children

Want to know more?

Come and see Mrs Bracegirdle in room 115 for more details

MODERN LANGUAGES

GERMAN AS/A2

This GCE AS and A level specification offers learners a rich and comprehensive insight into the intellectual and artistic culture of the countries and communities where German is spoken.



The specification content covers the two main areas of interest:

- i. social issues and trends
- ii. political, intellectual and artistic culture.

Under these two areas of interest a total of four themes have been chosen to offer learners an extensive and pertinent learning experience. These four themes are in turn divided into sub-themes.

| Area of interest (i) Social issues and trends | Area of interest (ii) Political, intellectual and artistic culture |
|--|--|
| Theme 1: (AS) Being a young person in German-speaking society <ul style="list-style-type: none"> Family structures, traditional and modern values, friendships / relationships Youth trends, issues and personal identity Education and employment opportunities | Theme 2: (AS) Understanding the German-speaking world <ul style="list-style-type: none"> Regional culture and heritage in Germany, German-speaking countries and communities Germany, Austria and Switzerland in a European context Literature, art, film and music in the German-speaking world |
| Theme 3: (A level) Diversity and difference <ul style="list-style-type: none"> Migration and integration Cultural identity and marginalisation Cultural enrichment and celebrating difference Discrimination and diversity | Theme 4: (A level) The Making of Modern Germany: 1989 onwards <ul style="list-style-type: none"> Initial and subsequent process of reunification Social cohesion in present-day Germany Artistic and political movements Economic impact of a united Germany |

AS (2 units)

Unit 1 (AS): Speaking - Non-exam assessment: 12-15 minutes (plus additional 15 minutes preparation time)

12% of qualification 48 marks

Task 1 - Arguing a point of view based on a written stimulus card (5-6 minutes)

Task 2 - Discussion based on a second written stimulus card (7-9 minutes)

Unit 2 (AS): Listening, reading, translation and critical response in writing

Written examination: 2 hour 30 minutes

28% of qualification 84 marks

Section A: Listening

Section B: Reading

Section C: Translation – from German into English/Welsh

Section D: Critical response in writing

A Level (the above plus a further 3 units)

Unit 3 (A level): Speaking - Non-exam assessment: 11-12 minutes

18% of qualification 72 marks

Independent research project

(a) Presentation of independent research project (2 minutes)

(b) Discussion on the content of the independent research project (9-10 minutes)

Unit 4 (A level): Listening, reading and translation

Written examination: 1 hour 45 minutes

30% of qualification 100 marks

Section A: Listening

Section B: Reading

Section C: Translation – from English/Welsh into German

Unit 5 (A level): Critical and analytical response in writing

Written examination: 1 hour 30 minutes

12% of qualification 40 marks

One essay question–based on the study of **one** literary work taken from the prescribed list

MODERN LANGUAGES

FRENCH AS/A2

This GCE AS and A level specification offers learners a rich and comprehensive insight into the social fabric, political, intellectual and artistic culture of the countries and communities where French is spoken.



The specification content covers the two main areas of interest:

- i. social issues and trends
- ii. political, intellectual and artistic culture.

Under these two areas of interest a total of four themes have been chosen to offer learners an extensive and pertinent learning experience. These four themes are in turn divided into sub-themes.

| Area of interest (i) Social issues and trends | Area of interest (ii) Political, intellectual and artistic culture |
|--|---|
| Theme 1: (AS) Being a young person in French-speaking society <ul style="list-style-type: none"> Family structures, traditional and modern values, friendships / relationships Youth trends, issues and personal identity Education and employment opportunities | Theme 2: (AS) Understanding the French-speaking world <ul style="list-style-type: none"> Regional culture and heritage in France, French-speaking countries and communities Literature, art, film and music in the French-speaking world |
| Theme 3: (A level) Diversity and difference <ul style="list-style-type: none"> Migration and integration Cultural identity and marginalisation Cultural enrichment and celebrating difference Discrimination and diversity | Theme 4: (A level) France 1940-1950: The Occupation and the post-war years <ul style="list-style-type: none"> From June 1940-May 1945 (occupation, liberation and end of World War II) Life in Occupied France and the cultural dimension (théâtre, cinéma, littérature) 1945-1950: rebuilding and restructuring Repercussions for modern day France |

AS (2 units)

Unit 1 (AS): Speaking - Non-exam assessment: 12-15 minutes (plus additional 15 minutes preparation time)

12% of qualification 48 marks

Task 1 - Arguing a point of view based on a written stimulus card (5-6 minutes)

Task 2 - Discussion based on a second written stimulus card (7-9 minutes)

Unit 2 (AS): Listening, reading, translation and critical response in writing

Written examination: 2 hour 30 minutes

28% of qualification 84 marks

Section A: Listening

Section B: Reading

Section C: Translation – from French into English/Welsh

Section D: Critical response in writing

A Level (the above plus a further 3 units)

Unit 3 (A level): Speaking - Non-exam assessment: 11-12 minutes

18% of qualification 72 marks

Independent research project

(a) Presentation of independent research project (2 minutes)

(b) Discussion on the content of the independent research project (9-10 minutes)

Unit 4 (A level): Listening, reading and translation

Written examination: 1 hour 45 minutes

30% of qualification 100 marks

Section A: Listening

Section B: Reading

Section C: Translation – from English/Welsh into French

Unit 5 (A level): Critical and analytical response in writing

Written examination: 1 hour 30 minutes

12% of qualification 40 marks

One essay question–based on the study of **one** literary work taken from the prescribed list

MATHEMATICS

AS and A2 Courses

The AS and A2 level courses in Mathematics follow the WJEC syllabus. The course consists of four units, two of which will be completed in Year 12 (AS level) and two in Year 13 (A2 level).

AS Unit 1: Pure Mathematics A: Written examination, 2 hours 30 minutes, 120 marks [25%]

A calculator will be allowed in this examination.

AS Unit 2: Applied Mathematics A: Written examination, 1 hour 45 minutes, 75 marks [15%]

The paper will comprise two sections:

Section A: Statistics (40 marks)

Section B: Mechanics (35 marks)

A calculator will be allowed in this examination.

A2 Unit 3: Pure Mathematics B: Written examination, 2 hours 30 minutes, 120 marks [35%]

A calculator will be allowed in this examination.

A2 Unit 4: Applied Mathematics B: Written examination, 1 hour 45 minutes, 80 marks [25%]

The paper will comprise two sections:

Section A: Statistics (40 marks)

Section B: Differential Equations and Mechanics (40 marks)

A calculator will be allowed in this examination.



FURTHER MATHEMATICS

AS Unit 1: Further Pure Mathematics A: Written examination, 1 hour 30 minutes, 70 marks [13.3%]

A calculator will be allowed in this examination.

AS Unit 2: Further Statistics A: Written examination, 1 hour 30 minutes, 70 marks [13.3%]

A calculator will be allowed in this examination.

AS Unit 3: Further Mechanics A: Written examination, 1 hour 30 minutes, 70 marks [13.3%]

A calculator will be allowed in this examination.

A Level (the above plus a further 2 units: unit 4 and either Unit 5 or Unit 6)

A2 Unit 4: Further Pure Mathematics B: Written examination, 2 hours 30 minutes, 120 marks [35%]

This unit is **compulsory**. A calculator will be allowed in this examination.

Learners will sit **either** Unit 5 **or** Unit 6:

A2 Unit 5: Further Statistics B: Written examination, 1 hour 45 minutes, 80 marks [25%]

A calculator will be allowed in this examination.

A2 Unit 6: Further Mechanics B: Written examination, 1 hour 45 minutes, 80 marks [25%]

A calculator will be allowed in this examination.

A high grade at GCSE, **minimum 'B' grade in the higher tier** is considered essential to follow A Level Mathematics and a GCSE grade, **minimum 'A' grade** to follow the Further Mathematics course. Maths is a demanding course which will entail much individual study. Students must possess the correct aptitude and attitude towards work.

For more information contact Mrs Tasha Allsup Jones, Head of the Mathematics Department.

MECHANICAL ENGINEERING (Level 3 BTEC Subsidiary Diploma in Engineering)

What will I learn?

- The qualification will consist of 6 units selected from a bank of Mandatory and Optional units.
- Mandatory units will include: Health and Safety in the Engineering Workplace, Engineering Drawing for Technicians, Mechanical Principles and Applications. These give a general introduction into engineering and the basics to apply engineering principles.
- Optional units will be selected in a collaboration between schools, local industry and Coleg Menai. The following are a list of these units: Engineering Drawing for Technicians, Applications of Computer Numerical Control in Engineering, Setting and Proving Secondary Processing Machines, and Computer Aided Manufacturing.

How will I learn?

The course is a partnership between Arfon and Môn secondary schools and Coleg Menai and is the equivalent of one A Level (one year of study will give the opportunity to achieve a Level 3 BTEC Certificate which is equivalent to one AS Level). These courses are supported by a range of local industries. You will spend a full extended afternoon (1.20pm - 5.15pm) at Coleg Menai, Llangefni site. You will also need to spend some time studying each week using Coleg Menai's online resources. Site visits and experience with major local employers will also be organised. Your school will arrange free transport to and from Coleg Menai. This course is a mix of practical and classroom tasks and you will get a chance to prepare and practise your skills before you are assessed so that you know and understand what you will have to do.

What will I need?

You will need at least a C grade in Mathematics at GCSE level.

Students will be required to wear suitable Personal Protective Equipment (PPE) whilst in the workshops (eg safety boots and overalls) which will be provided by Coleg Menai, and also show a strong motivation to follow the course on the extended afternoon in Coleg Menai.

How will I be assessed?

You will produce a coursework portfolio which is assessed by your course tutor and the examination board.

UCAS Points

A Distinction* grade in the Edexcel Level 3 BTEC Subsidiary Diploma would give you 56 UCAS points.

What happens after this course?

At the end of this course, here are some of the pathways available:-

- Follow further Engineering qualification at level 3 at Coleg Menai, eg Level 3 BTEC Diploma or Extended Diploma.
- Follow an HND/HNC qualification in a related sector at Coleg Menai, eg HND Performing Engineering Operations.
- Follow a modern Degree course in Engineering.

Ultimately, professional qualifications can be achieved by following any of these pathways.

Career Ideas!

- Professional Engineer
- Engineering Team Leader
- Design Engineer

Want to know more?

To find out more about this course, visit the following web page: <http://www.edexcel.com/quals/nationals10/eng/Pages/default.aspx>

ENGLISH Examination Board: WJEC

[For teaching from 2015. First AS award: Summer 2016. First A Level Award: Summer 2017.]

AS Unit 1: *Jane Eyre* and *Streetcar named Desire*

Prose and Drama (closed-book).

Written examination: 2 hours

20% of qualification

AS Unit 2: Seamus Heney and Owen Sheers

Poetry Post-1900 (open-book, clean copy)

Written examination: 1.5 hours

20% of qualification

A2 Unit 3: Christina Rossetti

Poetry Pre-1900 and Unseen Poetry

Written examination: 2 hours

A2 Unit 4: Shakespeare's *Hamlet*

Shakespeare (closed-book)

Written examination: 1.5 hours

20% of qualification

A2 Unit 5: *Atonement* and pupil's own choice

Prose Study

Non-examination assessment

20% qualification

PSYCHOLOGY

Level: Advanced Subsidiary and Advanced

Exam Board: WJEC

Why study Psychology?

WJEC's A Level specification provides plenty of opportunities to study:

- a variety of psychological approaches including evolutionary, positive and psychodynamic
- significant pieces of research covering a variety of perspectives and topics
- the reality of applying psychological information to everyday situations
- how psychological data is collected including the opportunity to carry out your own research

Studying Psychology provides a suitable foundation for the study of Psychology or a range of other subjects at degree level (e.g. law, education, medical and social science, the caring profession, sports management or business).

What is the content of the course?

The specification encourages learners to:

- develop essential knowledge and understanding of different areas of psychology and how they relate to each other
- develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods in psychology
- develop competence and confidence in a variety of practical, mathematical and problem-solving skills
- develop their interest in and enthusiasm for psychology, including developing an interest in further study and careers associated with the subject, and
- understand how society makes decisions about psychological issues and how psychology contributes to the success of the economy and society.

Assessment for Psychology is by exam. Pupils are expected to write a number of essays and will be assessed on their accuracy of content, but also on their expression, punctuation and use of standard English. It is desirable for learners to have achieved Grades A*- C in GCSE, or the equivalent, in English, Mathematics and/or Sciences before beginning this specification.

What is the structure of the course?

| Assessment unit | Context | Time | Weighting | |
|----------------------------|--------------------------------|-----------------|------------|------------|
| | | | % UG | %U |
| UNIT 1 (Year 12) | Psychology Past and Present | 1 hr 30m | 50% | 20% |
| UNIT 2 (Year 12) | Investigating Behaviours | 1 hr 45m | 50% | 20% |
| UNIT 3 (Year 13) | Implications in the Real World | 1 hr 30m | | 40% |
| UNIT 4 (Year 13) | Applied Research Methods | 2 hr 30m | | 20% |

MUSIC TECHNOLOGY (Level 3 BTEC Subsidiary Diploma in Music)

What will I learn?

The Edexcel Level 3 BTEC Subsidiary Diploma in Music consists of three core units **plus** three specialist units for the completed qualification.

The units will cover Recording Techniques, Performance, Songwriting, Arranging Music and Computer Music Systems.

How will I learn?

The course is a partnership between Arfon and Môn secondary schools and Coleg Menai, is the equivalent of one A level (one year of study will give the opportunity to achieve a Level 3 BTEC Certificate, which is equivalent to one AS level). You will spend a full extended afternoon (1.20pm - 5.15pm) at Coleg Menai, Bangor site. You will also need to spend some time studying each week using Coleg Menai's online resources. Your school will arrange free transport to and from Coleg Menai. This course is a mix of practical and classroom tasks and you will get a chance to prepare and practise your skills before you are assessed so that you know and understand what you will have to do.

What will I need?

It is essential that you have the ability to perform using musical instruments of any kind. It is also very important that you are interested in music technology and show a strong motivation to follow the course on the extended afternoon in Coleg Menai.

How will I be assessed?

There will be no examinations but you will be continuously assessed through assessments and coursework by the tutor and examination board.

UCAS Points

A Distinction* grade in the Edexcel Level 3 BTEC Subsidiary Diploma would give you 56 UCAS points.

What happens after this course?

At the end of this course, here are some of the pathways available:-

- Follow further Music Technology qualification at level 3 at Coleg Menai, eg Level 3 BTEC Diploma or Extended Diploma.
- Follow a modern Degree course in Music, Music Technology, Sound Engineering or Performance. Ultimately, professional qualifications can be achieved by following any of these pathways.

Career Ideas!

- Sound Engineer
- Performer
- Recording
- Further pathways in music

Want to know more?

To find out more about this course, visit the following web page:

<http://www.edexcel.com/quals/nationals10/music/Pages/default.aspx>

Or contact: www.careerswales.com

LAW

“Law is the cement of society and also an essential medium of change. A knowledge of law increases one’s understanding of public affairs. Its study promotes accuracy of expression, facility in argument and skill in interpreting the written word, as well as some understanding of social values” – Glanville Williams – ‘Learning Law’.

The course aims to provide a knowledge and understanding of the legal system in England and Wales, and by an in depth study of a particular area of law to provide a sound knowledge and understanding of a body of legal rules. It aims to stimulate critical awareness of fundamental legal concepts and of the nature of law. Also to stimulate a critical and analytical approach to legal principles by promoting familiarity with current debate and proposals for the reform of law.

The study of A Level Law is intended to be a complete course in itself. Law is a constantly changing subject and new statutes, cases, reports and editions of textbooks appear regularly. Candidates will be expected to keep up to date with relevant material and will be asked to read a quality newspaper regularly and keep a press cutting file and case book throughout the course.

AS

This is a foundation paper providing a broad treatment of law and the legal system. Such topics as the nature of law, principles of sentencing of adults and youths, barristers and solicitors education, training and role, role of the jury, law of tort etc.

Unit 1: The nature of Law and the Welsh and English Legal Systems –

| | | |
|--|-----------------|--------------|
| Written Examination - 1 hour 45 minutes | 80 marks | [25%] |
|--|-----------------|--------------|

Unit 2: The Law of Tort –

| | | |
|---|-----------------|--------------|
| Written Examinations - 1 hour 30 minutes | 60 marks | [15%] |
|---|-----------------|--------------|

A2

A2 builds upon the foundation paper and concentrates on one area of law viz: **Criminal Law and Human Rights Law**, where students study substantive criminal law including homicide offences and non-fatal offences, duty of confidentiality, contempt of court, police powers, rule of criminal law and theory, theft and robbery.

Unit 3 –The Practice of Substantive Law –

| | | |
|--|------------------|--------------|
| Written Examination – 1 hour 45 minutes | 100 marks | [30%] |
|--|------------------|--------------|

Unit 4 -Substantive Law Perspectives –

| | | |
|---------------------------------------|------------------|--------------|
| Written Examinations - 2 hours | 100 marks | [30%] |
|---------------------------------------|------------------|--------------|

The study of Law at AS and A Level fits neatly alongside many subjects and is particularly useful in combination with English, Economics, History, Sociology, Religious Education and Business Studies since skills used in the study of Law may be applied in the other subjects and the content in topic areas often overlaps with the other disciplines.

INFORMATION AND COMMUNICATION TECHNOLOGY

Whatever career you pursue in the future, knowledge of ICT skills and concepts is likely to be beneficial or even essential. This course aims to make you competent and confident in the use of ICT and give you an understanding of the uses and impact of computers in society today.

AS

IT1 -Information Systems (Written Examination – 2 hrs 15 mins) **A [24%]**

IT1 includes topics such as:

Data, Information and Knowledge; Value and importance of information; Quality of information; Validation and verification; Capabilities and limitations of ICT; Uses of ICT: Business, Education, Health, Home, Robotics, Internet of Things; Presenting Information; Networks; Human Computer Interface; Social issues; Database systems

Candidates will also be required to prepare a spreadsheet on a specific topic, defined by WJEC, in advance of the written paper. Hard copies of the spreadsheet are taken into the examination and used to answer questions in section B. This spreadsheet will be submitted with the completed examination paper to the examiner.

IT2 -Presenting Information (Internal Assessment) **A [16%]**

Candidates undertake 3 tasks within this unit, including DTP, automated documents and multimedia tasks.

A Level (the above plus a further 2 units)

IT3- Use and Impact of ICT (Written Examination – 2 hrs 30 mins) **A [36%]**

IT3 includes topics such as:

Computer Networks, The Internet (Information Sharing, Cloud Computing, E-Commerce, Moral, Social and Ethical Issues associated with the Internet); Human Computer Interface; Working with ICT; ICT Security Policies; Data and the importance of information; Relational Database systems; Management of Change; Management Information Systems; System Development Lifecycle

IT4 -Relational Database Project (Internal Assessment). **A [24%]**

Candidates analyse, design, implement, test and evaluate a relational database of their choice.

What will I need?

- An interest in ICT
- An investigative mind and motivation to work independently
- A commitment to meet coursework deadlines
- Although it is not essential, a computer at home would be advantageous

Career ideas - ICT skills are required for most jobs

- | | |
|--------------------------------------|--------------------------|
| • Web Designer/Developer / Webmaster | • Database Administrator |
| • Computer Games Developer | • IT Support Technician |
| • Software Developer | • Help Desk Operator |
| • Network Engineer | • Journalist |
| • Systems Analyst | • Media Researcher |
| • Network Manager | • Data Recording Clerk |
| • Drone Pilot | • IT Instructor |
| • Social Media Manager | • Teacher |

BTEC LEVEL 3 SUBSIDIARY DIPLOMA IN CONSTRUCTION AND THE BUILT ENVIRONMENT

What will I learn?

The Edexcel Level 3 BTEC Subsidiary Diploma in Construction and the built Environment consists of three core units plus three specialist units for the completed qualification.

The compulsory units will cover Health, Safety and Welfare in Construction, Sustainable Construction, Mathematics in Construction and the Built Environment, Science and Materials in Construction and the Built Environment.

Optional Units can cover:- Construction Technology and Design in Construction and Civil Engineering, Building Technology in Construction.

How will I learn?

The course is a partnership between Arfon and Môn secondary schools and Coleg Menai and is the equivalent of one A Level (one year of study will give the opportunity to achieve a Level 3 BTEC Certificate which is equivalent to one AS Level). You will spend a full extended afternoon (1.20pm - 5.15pm) at Coleg Menai, Llangefni site. You will also need to spend some time studying each week using Coleg Menai's online resources. Your school will arrange free transport to and from Coleg Menai.

This course is a mix of practical and classroom tasks and you will get a chance to prepare and practise your skills before you are assessed, so that you know and understand what you will have to do.

What will I need?

It is essential that you are interested in the Construction Industry and show a strong motivation to follow the course on the extended afternoon in Coleg Menai.

How will I be assessed?

There will be no examinations but you will be continuously assessed through assessments and coursework which will be assessed by the tutor and the examination board.

UCAS Points

A Distinction* grade in the Edexcel Level 3 BTEC Subsidiary Diploma will give you 56 UCAS points.

What happens after this course?

At the end of this course here are some of the pathways available:-

- Follow further Construction and the built environment qualifications at level 3 at Coleg Menai, eg Level 3 BTEC Diploma or Extended Diploma.
- Follow a degree course in Building Surveying, Civil Engineering, Building studies, Architecture or Housing. Ultimately professional qualifications can be achieved by following any of these pathways.

Career Ideas!

- | | | |
|---------------------|---------------------|---------------------------|
| • Building Surveyor | • Quantity surveyor | • Construction Technician |
| • Civil Engineer | • Building Control | • Building inspector |

Want to know more?

To find out more about this course, visit the following web page:

www.edexcel.com/quals/nationals10/cbe/Pages/default.aspx

Or contact: www.careerswales.com

WJEC LEVEL 3 CERTIFICATE/DIPLOMA IN MEDICAL SCIENCE

What will I learn?

In order to achieve the Level 3 Certificate in Medical Science learners are required to complete 3 units:

1. Human health and disease;
2. Physiological measurement techniques;
3. Medical Science research methods.

In order to achieve the Level 3 Diploma in Medical Science learners are required to complete 6 units; the three units above and also:

4. Medicines and treatment of disease
5. Clinical laboratory techniques
6. Medical case study

How will I learn?

The course aims to

- to provide learners with the knowledge, understanding and skills in key scientific principles.
- covers the key topic areas of health, physiology and disease,
- provide the opportunity to study the areas of pharmacology, physiological measurement, clinical testing and medical research.

What will I need?

An obvious interest in Science and good GCSE grades in the subjects. Skills in Numeracy/Mathematics, Literacy/English and Information Communication Technology will be relevant.

How will I be assessed?

Units 2, 3 and 4 are internally assessed using assignments. Units 1,4 and 6 are externally assessed, 1 and 6 are exam assessed and unit 5 a project based assessment.

UCAS Points: An A* grade is worth 56 UCAS points, A grade = 48 points, B grade = 40 grade and so on.

What happens after this course?

To support progress to higher education or employment in areas of Medical science, such as job roles in physiological sciences or clinical laboratory services.

Career Ideas!

| | | | |
|--------------------|-----------------------|-------------------------|------------------------------|
| Medicine Biologist | Pharmacist Scientist | Research Chemist | Further research or teaching |
| Nurse Practitioner | Laboratory Technician | Forensic Lab Technician | Criminal Medicine |



WJEC AS/A LEVEL IN COMPUTER SCIENCE

What will I learn?

The WJEC AS and A Level in Computer Science encourages learners to develop:

- An understanding of, and the ability to apply, the fundamental principles and concepts of computer science, including abstraction, decomposition, logic, algorithms and data representation.
- The ability to analyse problems in computational terms through practical experience of solving such problems, including writing programs to do so
- The capacity for thinking creatively, innovatively, analytically, logically and critically.
- the capacity to see relationships between different aspects of computer Science.
- Mathematical skills
- The ability to articulate the individual (moral), social (ethical), legal and cultural opportunities and risks of digital technology.

How will I learn?

The course is a partnership between Arfon and Môn secondary schools. You will spend a full extended afternoon (1.00pm - 5.00pm) at Ysgol Gyfun Llangefni. Your school will arrange free transport to and from Ysgol Gyfun Llangefni. This course is a mix of practical and classroom tasks and you will get a chance to prepare and practise your skills before you are assessed so that you know and understand what you will have to do.

What will I need?

4 GCSE grades A*-C, to include a C Grade in Mathematics (Higher), Science and Welsh/ English Language.

Also show a strong motivation to follow the course on the extended afternoon in Bangor University.

How will I be assessed?

You will be assessed regularly by your teacher and asked to produce a coursework portfolio which will be assessed by your course teacher and the examination board and sit exam board examinations which will be in your own school.

UCAS Points

An A* grade in the WJEC Computer Science will give you 56 UCAS points.

What happens after this course?

At the end of this course here are some of the pathways available:-

- Follow a modern Degree / Masters course in Computer Science.
- Gain a modern apprenticeship with a local employer in the Computing ? Computer science / coding sector.

Ultimately professional qualifications can be achieved by following any of these pathways.

Career Ideas

- Professional Software Engineer
- Professional Computer Science Team Leader
- Software Design Engineer

Want to know more?

To find out more about this course, visit the following web page:

<http://www.wjec.co.uk/qualifications/computer-science/computer-science-gce/> or contact www.careerswales.com

WJEC LEVEL 3 CERTIFICATE/DIPLOMA IN TOURISM

What will I learn?

In order to achieve the Level 3 Certificate in Tourism learners are required to complete 2 units:

1. The United Kingdom Tourism Product;
2. Worldwide Tourism Destinations;

In order to achieve the Level 3 Diploma in Tourism learners are required to complete 4 units;, the two units above and also:

3. The Dynamic Tourism Industry
4. Event and Itinerary Planning

How will I learn?

The course aims to

- enable learners to understand what the United Kingdom offers to inbound and domestic tourists
- educate learners to appreciate the range of employment opportunities available in the tourism industry
- provide learners with the underpinning knowledge, understanding and skills associated with tourism organisations and activities.
- understand the process of event management and the nature of tour itineraries within the UK.

What will I need?

An obvious interest in Tourism and good GCSE grades in subjects. Skills in Numeracy/Mathematics, Literacy/English and Information Communication Technology will be relevant.

How will I be assessed?

Units 1 and 3 are externally assessed, Units 2 and 4 are internally assessed using assignments, and externally moderated. Each units = 25% of qualification.

UCAS Points: An A* grade is worth 56 UCAS points, A grade = 48 points, B grade = 40 grade and so on.

What happens after this course?

To support progress to higher education or employment in areas of Tourism, such as job roles in tourism, event management and hospitality.

Career Ideas!

| | | | |
|-------------|---------------|------------------|------------------------|
| Tourism | Travel Agents | Hotel Management | Event Management |
| Hospitality | Tour Operator | Tour Guide | Holiday Representative |