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In many ways, Years 12 and 13 of school are the most important in a student's life when they apply and prepare for university and their future career. At The Winchester School, we give students the confidence to face the future and set them off on the next stage of their lives.

We offer a broad range of strategies to support students moving from Year 11 to Year 12. A comprehensive tutorial system will be in place and the complete support of staff is offered at all times. We would like to invite you to share our success and enjoy the challenges of learning in a stimulating and safe environment. We know that our staff are exceptional and will do everything they can to ensure that students achieve and exceed their potential and we hope that in the future you will look back on your time with us with happy memories and as the first step towards a successful career.

We have our own Sixth Form Centre, Library, Steam Café, ICT facilities, 3D room, Food and Nutrition Laboratory, Science laboratories, BTEC Lab and playing fields. Sixth Form offers a wide range of community services and work experience opportunities including Oxford Reading Tree Programme, Enrichment Support to KS3, visits to Al-Noor Centre for special needs, visits to orphanages and old age home, Achievement Centre support and internship opportunities etc. Our Sixth Form provision fully compliment the school's vision of employability and adaptability. We are proud to be associated with organisations and events like SCIFEST and TEDx. Our participation in Debate Dubai, MUN, Makers day, STEAM Carnival, STEAM Fest, Think Science, Global Innovation Challenge, Duke of Edinburgh, Diplomathlon, Dewa Innovation Challenge, STEM Olympiads, Robotics, and Water Rocket Challenge by Aviation College enhances innovation, entrepreneurship and enterprise skills in our students. We have extensive career counselling sessions available to help our students pick their right career paths.

The greatest advantage of doing A Levels at The Winchester School is the warm and friendly atmosphere and our multicultural staff and students. We offer a unique international learning experience for our students. Our educational programme is structured keeping in mind a 'World-centred' perspective based on the principles of GEMS core values: 'Leading through Innovation, Pursuing Excellence, Growing by Learning, and Global Citizenship.'





# **Options for AS / A Level 2022 – 2024**

As you are aware, it is time for your child to choose subjects for the AS Level program. The choice of these subjects will be significant in determining the educational future of your child. The process of selection of the right subjects is very crucial and has far-reaching consequences.

In choosing their options, students must carefully consider the following points:

- What do I enjoy?
- What am I good at?
- What do I need for entry into College/University education?

Please do a thorough research of what you want to pursue in the universities, which courses and what do they need in the A level and make an informed choice for A level options.

Listed below are some career options, essential prerequisites and desirable prerequisites for these choices based on general information. It may vary for some universities and countries.

Degree course	<b>Essential Subjects</b>	Useful Subjects
Accountancy	Mathematics	Accounting, Business Studies and Economics
Actuarial Science/Studies	Mathematics	Further Mathematics, Economics, Business Studies
Aeronautical Engineering	Mathematics and Physics	Further Mathematics
Architecture	Art and Design	Mathematics and Physics.
Banking	Mathematics , Accounting	Business Studies and Economics
Biochemistry	Chemistry, Biology	Mathematics , Physics
Biology	Biology, Chemistry	Mathematics or Physics
Biomedical Sciences	Normally two from Biology, Chemistry, Mathematics and Physics. Chemistry is essential for some courses	Mathematics, Further Mathematics, Biology, Chemistry, Physics
Business Studies	None	Mathematics, Business Studies , Accounting and Economics
Chemical Engineering	Chemistry and Mathematics and sometimes Physics as well	Physics, Biology, Further Mathematics
Chemistry	Chemistry and occasionally Mathematics plus another science	Mathematics, Further Mathematics, Physics, Biology
Communication Studies	English or Media Studies.	Sociology, Psychology
Computing	Computer Science, Mathematics	Further Mathematics, Physics, IT
Dentistry	Chemistry and Biology for most courses, but some require Mathematics or Physics as well	Mathematics, Physics, Further Mathematics
Economics	Usually Mathematics	Economics
Electrical/Electronic Engineering	Mathematics, Physics	Further Mathematics, ICT and Design Technology
Engineering (General)	Mathematics and Physics	Further Mathematics and Chemistry
Environmental Science/Studies	Many courses will ask for two from Biology, Chemistry, Mathematics, Physics and Geography	





Degree course	Essential Subjects	Useful Subjects
Finance	Mathematics	Accounting, Business Studies and Economics
Geology	Usually two from Mathematics, Physics Chemistry and Biology	Geography, Geology
History	Most degrees require History	Economics, English Literature, Sociology,
Law	English	History, Sociology
Management Studies	Business Studies	Mathematics, Economics
Mathematics	Mathematics and sometimes Further Mathematics	Further Mathematics, Physics
Mechanical Engineering	Mathematics with a strong Mechanics component, Physics	Further Mathematics
Medical Science	Biology, Chemistry, Physics/ Mathematics	Mathematics, Physics (For India, English is also required)
Medicine	Chemistry, Biology	Mathematics or Physics
Nursing	Biology	Sociology, Psychology, Chemistry.
Pharmacy	Chemistry, Biology and one from Mathematics and Physics	Mathematics, Physics
Physics	Mathematics, Physics	Further Mathematics, Chemistry
Physiotherapy	Biology	Chemistry, Mathematics, Physics, Psychology
Politics	None	History, Sociology
Psychology	Biology, Psychology	Mathematics, Sociology
Sociology	None	Sociology, Psychology, Geography
Speech Therapy	Biology	English Language, Psychology, Chemistry or Physics
Veterinary Science	Chemistry and Biology	Mathematics/Physics, Psychology

Students will continue with their option choices of AS level into A level. It is not possible for a student to choose a new option in A level.

It is expected that a student will score at least a passing grade in the AS Level examination to continue that subject at A Level. The final A level grade is a cumulative grade of the AS and A level exams.

It is always advisable for students to opt for four subjects as this gives a safer option for students to gain admission in Universities. Many universities insist on three A levels with specific minimum grade requirements. Certain universities give preference to students with four A levels.

Re-enrollment procedures need to be completed before the end of the academic year to confirm admission into A level.

I also wish to inform you that as per the specifications of the Ministry of Education and KHDA, a student can register for the qualifying examination only if he/she has a minimum of 96% attendance during the academic year.





# Sixth Form Admission Procedure A Level Option Form 2022 – 2024

The standard entry requirement for A level study at The Winchester School, Jebel Ali is:

- 1. Ministry Arabic is compulsory for all Arabs. It is not an AS subject.
- 2. Arabic is compulsory for Arabs and Non- Arabs who wish to attend any UAE University (International/local) in the future.
- 3. Islamic Studies is compulsory for all Muslim students.
- Please note that EMSAT examination is the ministry requirement for admission into local UAE University both National and International. Further details can be found on the individual university websites and can defer.
- 5. A student must achieve a minimum B grade in the IGCSE examination in all subjects that he/she wants to pursue further in AS/A level.
- 6. English and Mathematics are not compulsory.
- 7. Students can take only one subject in AS based on English IGCSE grade. Please note that for AS English, Psychology and Sociology, IGCSE First Language English is required, if they have not taken Sociology and Psychology as IGCSE subject.
- 8. IT and Computer science cannot we written in the same setting as per CAIE.
- 9. An option will be considered viable only if at least 10 students sign up for it.
- 10. BTEC is a 2-year programme. BTEC can be studied alone or in combination with A levels. One BTEC is equivalent to 2 A levels. Students can also choose either 2 BTEC Options or hybrid option: 1 BTEC and 2 AS options. BTEC is a highly recognized in UK and does not require equivalency from UAE ministry of education for universities in UK. Please check on acceptance of BTEC in the university you wish to pursue.
- 11. Students must choose minimum 3 subjects, one from each option block.

Option 1	Option 2	Option 3	Option 4
Accounting (Grade A*-B in IGCSE) □	Economics (Grade A*-B in IGCSE) □	*Travel and Tourism (Grade A*-B in IGCSE TT or A*-B in English 1st or 2nd Lang)	Business (Grade A*-B in IGCSE Business or A*-B in English 1st or 2nd Lang) □
Physics (Grade A*-B in IGCSE) □	<b>Biology</b> (Grade A*-B in IGCSE) □	Chemistry (Grade A*-B in IGCSE) □	Computer Science (Grade A*-B in IGCSE) □
Information Technology (Grade A*-B in IGCSE) □	Mathematics (Grade A*-B in IGCSE) □	*Psychology (Grade 9-5 in GCSE Psychology or A*-B in IGCSE English 1st Lang.)	Mathematics (Grade A*-B in IGCSE) □
English Language (Grade A*-B in IGCSE English 1st Language) □	*Sociology (Grade A*-B in IGCSE Sociology or A*-B in English 1st Lang)	Geography (Grade A*-B in IGCSE Geography) □	History (Grade A*-B in IGCSE History) □
*Psychology (Grade A*-B in IGCSE English 1st Lang.) □	Art and Design (Grade A*-B in IGCSE) □	Mathematics (Grade A*-B in IGCSE) □	Information Technology (Grade A*-B in IGCSE) □
BTEC ICT □	BTEC Business	BTEC Hospitality	BTEC Applied Sciences





# **Sixth Form Entry Requirement For The Subjects Offered**

Subject	IGCSE grade required for AS & A Level Course	Possibility of doing the subject in AS Level if not completed in IGCSE Yes or No	Other requirements
Accounting	В	NO	N/A
Biology	В	NO	N/A
Business	В	YES	IGCSE English with a minimum B grade if Business is not taken in IGCSE
Chemistry	В	NO	N/A
Economics	В	NO	N/A
English Language	B (in IGCSE First Language)	NO	N/A
Geography	В	NO	IGCSE EVM with a minimum B grade if Geography is not taken in IGCSE
Information Technology	В	NO	N/A
Computer Science	В	NO	N/A
Mathematics	В	NO	N/A
Physics	В	NO	N/A
Psychology	N/A	YES	Should have 'B' in English First Language if Psychology is not taken in IGCSE
Sociology	В	YES	Should have 'B' in English First Language if Sociology is not taken in IGCSE
Travel and Tourism	В	YES	IGCSE English with a minimum B grade if Travel & Tourism is not taken in IGCSE
Art and Design	В	NO	N/A
History	В	NO	N/A

<sup>\*</sup>Please be informed that students who have done IGCSE Core paper in Mathematics, English, Physics, Chemistry and Biology are not eligible for entry into these subjects at AS Level.



<sup>\*</sup>Please note that students can take only ONE AS Subject based on IGCSE English.



# **Choosing appropriate Academic Pathways**

# **Sixth Form Study**

Studying in the Sixth Form is very different from the experience students are used to in Years 7-11 and although Sixth Formers take a much smaller range of subjects, the depth of study required is much more than at IGCSE. It is important that students use their time wisely and productively to prepare to work hard and prepare themselves fully for their assessments and university admissions

In year 13, the Sixth Formers are given non-contact periods timetabled into their working week, which provide them with time to undertake independent study to meet the requirements of their courses. This encourages them to become independent, life-long learners and prepares them for further study at university.

Islamic Education is mandatory for all Muslim students in Year 12 and Year 13.

As per Ministry of Education requirement students registered under Arab passports or students who will continue to study in UAE Local universities are required to study Arabic in year 12 and year 13 for three lessons per week and complete the Ministry curriculum and subsequent internal assessments.

### **CURRICULUM**

At Winchester, we follow Cambridge Assessment International Examination AS & A Levels and BTEC Nationals – Level 3 programme from the Pearson board. Look carefully at the syllabus and the books (even if you have studied the subject earlier).

Please refer to <a href="https://www.cambridgeinternational.org">https://www.cambridgeinternational.org</a> or

https://qualifications.pearson.com/en/qualifications/btec-nationals.html for BTEC.

# Choosing the right subjects for future careers

• Research which subjects are required or of benefit for the career you wish to pursue.

Your Research in choosing the subject is vital as these requirements may vary from course to course, University to University and country to country.

Choose the subject that you will enjoy, stay motivated and the combination of which meets your future requirement. Some websites that might help you:

www.careerswales.com www.connexions-direct.com www.ucas.com

Prioritise your subjects in order of interest and value to you

#### What to research

- What are the prospects or the kind of jobs that I can get?
- What will I have to do on a day to day basis?
- What kind of personal skills or qualities do I need?
- What does the job involve?
- What are the pros and cons of the type of work?
- What type of environment will I work in?
- What would be the working hours?
- How much can I earn?
- How long should I study?
- Is further training or studies or research available for me?
- Is training available while working?





• Will the job involve travelling?

# **Careers and Higher Education Guidance**

At Winchester we start our Career guidance from Year 9 and is continued in KS4 and then into sixth form. All students in Year 12 have an individual career guidance session with the Careers Counsellor, Mrs. Reena Guglani, to support their Career aspirations and choice of their universities, keeping in mind the courses and would most likely pursue along with the choice of country they wish to go.

We have regular Career education fair and Career assemblies organised for our students. Guests from visiting universities give presentations on aspects of university life and the application process.

We organise career orientations for parents to understand the process of University applications including understanding UCAS (UK), Common App (US), Study portal ( Netherlands), Personal Statements, Applying to Canada , European Universities etc.

Our Career counsellor works very closely with students to complete their application process from Year 12. All students are provided with Unifrog details. Unifrog user-friendly platform that helps students to make the best choices, and submit the strongest applications. It also teachers and counsellors to monitor the progression process of university applications effectively.





# ART & DESIGN

Head of Department Mr. Angelo Dias

Exam Board Cambridge Subject Code 9479

### **Content Overview**

Cambridge International AS & A Level Art & Design encourages learners to explore a range of processes and techniques appropriate to their chosen area of study. The syllabus encourages personal responses that are based on knowledge and understanding and skills in art, craft and design. The four areas of study are listed below:

#### Fine art

Candidates may focus on one or combine several of the following:

• painting

• print making

drawing

• mixed media

• sculpture

• experimental – assemblage/construction.

### **Examination**

#### How will I be assessed?

Exam Papers 12	% of GCE	Details
Component 1 - Coursework	50% of the AS Level	Candidates research, develop and realise
100 marks	25% of the A Level	a project from one area of study in the
		syllabus content.
		There are two parts to the coursework:
		– a portfolio and
		– a final outcome.
Component 2 - Externally Set	50% of the AS Level	Candidates choose one starting point to
Assignment	25% of the A Level	develop into a personal response.
15 hours - 100 marks		There are two parts to the assignment:
		<ul> <li>supporting studies, created during the</li> </ul>
		preparation period and
		– a final outcome, produced during a
		supervised test of 15 hours' total
		duration.
Component 3 - Personal	50% of the A Level	Candidates investigate a theme, idea,
Investigation		concept or process that is personal to
		them.
100 marks		There are two parts to the investigation:
		<ul> <li>practical work and</li> </ul>
		– written analysis (1000–1500 words).
		The practical work and written analysis
		must form an integrated submission.

### **Future Prospects:**

A qualification in Art & Design A-Level can be used in many career paths, some of which you may not have considered; Architect, Art Historian, Publisher, Gallery Manager, Writer/critic, Game Designer, Stop Motion Animator, Interface Designer, Advertiser, Web Designer, Furniture Designer, Graphic Designer, Illustrator, Interior Designer, Printmaker, Product Designer, Fashion Designer, Video/film/photographer, Sculptor, Teacher, Lecturer and many more besides.



# The Winchester School

# **BIOLOGY**

Head of Department Mrs. Aditi Kapoor

Exam Board Cambridge

Subject Code 9700

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

#### **Course Details**

### For Year 12

Candidates for Cambridge International AS Level Biology study the following topics:

- 1. Cell structure
- **2.** Biological molecules
- 3. Enzymes
- **4.** Cell membranes and transport
- **5.** The mitotic cell cycle
- **6.** Nucleic acids and protein synthesis
- 7. Transport in plants
- **8.** Transport in mammals
- 9. Gas exchange and smoking
- 10. Infectious disease
- 11. Immunity

### For Year 13

Candidates for Cambridge International A Level Biology study the AS topics and the following topics:

- **1.** Energy and respiration
- 2. Photosynthesis
- 3. Homeostasis
- 4. Control and co-ordination
- 5. Inherited change
- **6.** Selection and evolution
- 7. Biodiversity, classification and conservation
- 8. Genetic technology





### How will I be assessed?

Exam Papers 12	% of GCE	Details
Paper 1 – Multiple choice 40 marks - 1 hour 15 min	31% of the AS Level 15.5% of the A Level	This paper consists of 40 multiple choice questions, all with four options. All questions will be based on the AS Level syllabus content.
Paper 2 - Structured questions 60 marks 1 hour 15 minutes	46% of the AS Level 23% of the A Level	This paper consists of a variable number of questions, of variable mark value. All questions will be based on the AS Level syllabus content.
Paper 3 - Advanced Practical skills - 40 marks 2 hours	23% of the AS Level 11.5% of the A Level	This paper requires candidates to carry out practical work in timed conditions. This paper will consist of two or three experiments drawn from different areas of the AS Level syllabus.
Exam Papers 13	% of GCE	Details
Paper 4 – Structured questions - 100 marks 2 hours	38.5% of the A Level	This paper consists of a variable number of structured questions each with a variable mark value (Section A) and a choice of one free response style question worth 15 marks (Section B). All questions will be based on the A Level syllabus but may require knowledge of material first encountered in the AS Level syllabus.
Paper 5 - Planning , analysis and Evaluation – 30 marks - 1 hour 15 minutes	11.5% of the A Level	This paper consists of a variable number of questions of variable mark value based on the practical skills of planning, analysis and evaluation.

### **Future Prospects:**

Students who take Biology often also study from a wide range of subjects, including Psychology, Sociology, PE, Chemistry, Science in Society, Physics, Applied Science, Health & Social Care, Critical Thinking and Environmental Studies.

Biology is a great choice of subject for people who want a career in health and clinical professions such as Medicine, Dentistry, Veterinary Science, Physiotherapy, Pharmacy, Optometry, Nursing, Zoology, Marine Biology or Forensic Science.



# محرسة وينشستر The Winchester School

# **CHEMISTRY**

Head of Department Mrs. Aditi Kapoor

Exam Board Cambridge Subject Code 9701

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

### **Course Details**

### For Year 12

Students will study the following topics in AS level:

Unit 1: Atoms, molecules and stoichiometry

Unit 2: Atomic structure

Unit 3: Chemical bonding

Unit 4: States of matter

Unit 5: Chemical energetics

Unit 6: Electrochemistry

Unit 7: Equilibria

Unit 8: Reaction kinetics

Unit 9: The Periodic Table: chemical periodicity

Unit 10: Group 2

Unit 11: Group 17

Unit 12: An introduction to the chemistry of transition elements

Unit 13: Nitrogen and sulfur

Unit 14: An introduction to organic chemistry

Unit 15: Hydrocarbons

Unit 16: Halogen derivatives

Unit 17: Hydroxy compounds

Unit 18: Carbonyl compounds

#### For Year 13

Students will study the following topics in A level:

Unit 19: Lattice Energy

Unit 20: Electrochemistry UNIT 21:

Unit 21: Further aspects of equilibria

Unit 22: Reaction Kinetics

Unit 23: Entropy and Gibbs free energy

Unit 24: Transition elements

Unit 25: Benzene and its compounds

Unit 26: Carboxylic acids and their derivatives

Unit 27: Nitrogen compounds

Unit 28: Polymerisation

Unit 29: Analytical Technique

Unit 30: Organic synthesis

Unit 31: An introduction to the chemistry of transition elements





#### How will I be assessed?

Exam Papers 12	% of GCE	Details
Paper 1 – Multiple choice 40 marks - 1 hour 15 min	31% of the AS Level 15.5% of the A Level	This paper consists of 40 multiple choice questions, all with four options. All questions will be based on the AS Level syllabus content.
Paper 2 - Structured questions 60 marks 1 hour 15 minutes	46% of the AS Level 23% of the A Level	This paper consists of a variable number of questions of variable mark value. All questions will be based on the AS Level syllabus content.
Paper 3 - Advanced Practical skills - 40 marks 2 hours	23% of the AS Level 11.5% of the A Level	This paper requires candidates to carry out practical work in timed conditions. Candidates will be expected to collect, record and analyse data so that they can answer questions related to the activity. The paper will consist of two or three experiments drawn from different areas of chemistry.
Exam Papers 13	% of GCE	Details
Paper 4 – Structured questions - 100 marks 2 hours	38.5% of the A Level	This paper consists of a variable number of free response style questions of variable mark value. All questions will be based on the A Level syllabus but may require knowledge of material first encountered in the AS Level syllabus.
Paper 5 - Planning , analysis and Evaluation – 30 marks - 1 hour 15 minutes	11.5% of the A Level	This paper consists of a variable number of questions of variable mark value based on the practical skills of planning, analysis and evaluation. The context of the questions may be outside the syllabus content, but candidates will be assessed on their practical skills of planning, analysis and evaluation rather than their knowledge of theory.

### **Future Prospects:**

Chemistry is a great choice of subject for people who want a career in health and clinical professions, such as Medicine, Nursing, Biochemistry, Dentistry or Forensic Science. However, it also leads you into a wide range of research or clinical careers, such as Pharmacology, Biochemistry or Biochemical engineering.

Chemistry degrees open many doors in regards to job opportunities. Some of these include: Analytical Chemist, Biotechnologist, Chemical Engineer, Healthcare Scientist, Clinical Biochemistry, Forensic Scientist, Nanotechnologist, Pharmacologist, Research Scientist (physical sciences), Scientific Laboratory Technician, Toxicologist.





# **PHYSICS**

Head of Department Mrs. Aditi Kapoor

Exam Board Cambridge

Subject Code 9702

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

## **Course Details**

For Cambridge International AS and A Level Physics, candidates may choose to take :

- Papers 1, 2, 3, 4 and 5 in the same examination series, leading to the full Cambridge International A Level
- Papers 1,2 and 3 (for the AS Level qualification) in one series, then Papers 4 and 5 (for the full Cambridge International A Level) in a later series

Content section	Assessment component	Topics included
		Unit 1: Physical quantities and units
		Unit 2: Measurement techniques Unit 3: Kinematics
		Unit 4: Dynamics
		Unit 5: Forces, density and pressure
AS Level	Section 1	Unit 6: Work, energy and power
AS Level	Theory Fundamentals & Practical	Unit 7: Deformation of solids
	Skills	Unit 8: Waves
		Unit 9: Superposition
		Unit 10: Electric fields
		Unit 11: Current of electricity
		Unit 12: D.C. circuits
		Unit 13: Particle and nuclear physics

### For Year 13

A Section 2 Advanced Theory & Advanced Practical Skills  Unit 1: Physical quantities and units Unit 2: Measurement techniques Unit 3: Motion in a circle Unit 4: Gravitational fields Unit 5: Ideal gases Unit 6: Temperature Unit 7: Thermal properties of materials Unit 8: Oscillations Unit 9: Waves Unit 10: Communication Unit 11: Electric fields Unit 12: Capacitance Unit 13: Current of electricity Unit 14: D.C. circuits Unit 15: Electronics	Content section	Assessment component	Topics included
Unit 16: Magnetic fields Unit 17: Electromagnetic induction Unit 18: Alternating currents Unit 19: Quantum physics		Section 2 Advanced Theory &	Unit 1: Physical quantities and units Unit 2: Measurement techniques Unit 3: Motion in a circle Unit 4: Gravitational fields Unit 5: Ideal gases Unit 6: Temperature Unit 7: Thermal properties of materials Unit 8: Oscillations Unit 9: Waves Unit 10: Communication Unit 11: Electric fields Unit 12: Capacitance Unit 13: Current of electricity Unit 14: D.C. circuits Unit 15: Electronics Unit 16: Magnetic fields Unit 17: Electromagnetic induction Unit 18: Alternating currents





#### How will I be assessed?

% of GCE	Details
31% of the AS Level	This paper consists of 40 multiple choice
15.5% of the A Level	questions, all with four options. All questions
	will be based on the AS Level syllabus
	content.
	This paper consists of a variable number of
23% of the A Level	questions of variable mark value. All
	questions will be based on the AS Level
220/ - 541 - ACI1	syllabus content.
	This paper requires candidates to carry out practical work in timed conditions. The paper
11.5% of the A Level	will consist of two experiments drawn from
	different areas of physics. The experiments
	may be based on physics not included in the
	syllabus content, but candidates will be
	assessed on their practical skills rather than
	their knowledge of theory.
% of GCE	Details
38.5% of the A Level	This paper consists of a variable number of
	questions of variable mark value. All
	questions will be based on the A Level
	syllabus but may require knowledge of
	material first encountered in the AS Level
11.50/ 6:1 A.Y. 1	syllabus.
11.5% of the A Level	This paper consists of two questions of equal
	mark value based on the practical skills of planning, analysis and evaluation. The
	context of the questions may be outside the
	syllabus content, but candidates will be
	assessed on their practical skills of planning,
	analysis and evaluation rather than their
	knowledge of theory.
	31% of the AS Level 15.5% of the A Level 46% of the AS Level 23% of the A Level 23% of the AS Level 11.5% of the A Level

### **Future Prospects:**

Physics is a requirement for many university courses including the various branches of Engineering and Physics. It is also recommended for some Architecture, Science and Medical courses. To study one of the many Physics or Engineering based courses at degree level you will require both Physics and Mathematics A Levels. There is no escaping the fact that these two subjects are inextricably linked. Although it is not necessary to study Mathematics to take A Level Physics, it is necessary to have a sound grasp of algebra and trigonometry for the AS level and basic calculus and exponential/logarithmic functions for A Level; therefore A level Mathematics is highly recommended.





# **MATHEMATICS**

Head of DepartmentExam BoardSubject CodeMrs. Tahmeena KhanCambridge9709

## **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

Course Details

### For Year 12:

The Cambridge International AS Level Mathematics qualification offers two different options:

- Pure Mathematics and Mechanics (Paper 1 and Paper 4) or
- Pure Mathematics and Probability & Statistics (Paper 1 and Paper 5).

Content section	Assessment component	Topics included
Pure Mathematics 1	Paper 1	1.1 Quadratics 1.2 Functions 1.3 Coordinate geometry 1.4 Circular measure 1.5 Trigonometry 1.6 Series 1.7 Differentiation 1.8 Integration
Mechanics 1	Paper 4	4.1 Forces and equilibrium 4.2 Kinematics of motion in a straight line 4.3 Momentum 4.4 Newton's laws of motion 4.5 Energy, work and power
Statistics 1	Paper 5	<ul> <li>5.1 Representation of data</li> <li>5.2 Permutations and combinations</li> <li>5.3 Probability</li> <li>5.4 Discrete random variables</li> <li>5.5 The normal distribution</li> </ul>

### For Year 13:

The Cambridge International A Level Mathematics qualification offers two different options:

- Pure Mathematics, Mechanics and Probability & Statistics (Papers 1, 3, 4 and 5) or
- Pure Mathematics and Probability & Statistics (Papers 1, 3, 5 and 6).

Content section	Assessment component	Topics included
Pure Mathematics 2	Paper 3	2.1 Algebra 2.2 Logarithmic and exponential functions 2.3 Trigonometry 2.4 Differentiation 2.5 Integration 2.6 Numerical solution of equations



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Pure Mathematics 3	Paper 3	3.1 Algebra 3.2 Logarithmic and exponential functions 3.3 Trigonometry 3.4 Differentiation 3.5 Integration 3.6 Numerical solution of equations 3.7 Vectors 3.8 Differential equations 3.9 Complex numbers
Statistics 2	Paper 6	<ul><li>6.1 The Poisson distribution</li><li>6.2 Linear combinations of random variables</li><li>6.3 Continuous random variables</li><li>6.4 Sampling and estimation</li><li>6.5 Hypothesis tests</li></ul>

### **Examination**

#### How will I be assessed?

Exam Papers 12	% of GCE	Details
Paper 1 - 75 marks	60% of the AS Level	10 to 12 structured questions
1 hour 50 minutes	30% of the A Level	based on the Pure Mathematics
		1 subject content
Paper 4 - 50 marks	40% of the AS Level	6 to 8 structured questions
1 hour 15 minutes	20% of the A Level	based on the Mechanics subject
		content
Paper 5 - 50 marks	40% of the AS Level	6 to 8 structured questions
1 hour 15 minutes	20% of the A Level	based on the Probability &
		Statistics 1 subject content
Exam Papers 13	% of GCE	Details
Paper 3 - 75 marks	30% of the A Level	9 to 11 structured questions
1 hour 50 minutes		based on the Pure Mathematics
		3 subject content
Paper 6 - 50 marks	20% of the A Level	6 to 8 structured questions
1 hour 15 minutes		based on the Probability &
		Statistics 2 subject content

### **Future Prospects:**

An AS in Mathematics is very valuable as a supporting subject to many courses at A Level and degree level, especially in the sciences and geography, psychology, sociology and medical courses. A Level Mathematics is a qualification for entry to a wide variety of courses in higher education. There are also many areas of employment that see a Mathematics A Level as an important qualification and it is often a requirement for the vocational qualifications related to these areas. Higher Education courses or careers for which A Level Mathematics is particularly relevant include economics, medicine, architecture, engineering, accountancy, teaching, business, banking, air traffic control, retail management, surveying, cartography, psychology, physics, computing and ICT.





# **ENGLISH**

<u>Head of Department</u> Mrs. Akifa Ijaz Exam Board Cambridge Subject Code 9093

# **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at the end of Year 13.

Course Details

## For Year 12

Content section	Topics included
Paper 1 9093/12	This paper contains two main parts:  (a) Commentary on the use of language in the passage(s).  (b) Directed writing task based on the passage(s)  Texts will be drawn from a range of English language sources such as advertisements, brochures, leaflets, editorials, news stories, articles, reviews, blogs, investigative journalism, letters, podcasts, (auto) biographies, diaries, essays, scripted speech (e.g. a speech by a politician) and narrative/descriptive writing.
Paper 2 9093/22	This paper contains two main parts:  (a) Imaginative writing (b) Writing for an audience

# For Year 13

Content section	Topics included
Paper 3	Text analysis
9093/32	
	Language topics
Paper 4	(a) Spoken language and social groups
9093/42	(b) English as a global language
	(c) Language acquisition by children and teenagers.





### How will I be assessed?

Exam Papers 12	% of GCE	Details
Paper 1- Passages -	50% of the AS Level	The paper contains three questions.
50 marks	25% of the A Level	Candidates answer two questions: Question 1,
2 hours 15 minutes		and either Question 2 or Question 3. Questions
		carry equal marks
Paper 2 – Writing -	50% of the AS Level	Two sections: Section A and Section B.
50 marks	25% of the A Level	Candidates answer two questions: one from
2 hours		Section A and one from Section B. Questions
		carry equal marks.
Exam Papers 13	% of GCE	Details
Paper 3- Text Analysis	25% of the A Level	The paper contains two questions. Candidates
- 50 marks		must answer both questions. Questions carry
2 hours 15 minutes		equal marks.
Paper 2 – Language	25% of the A Level	The paper contains three questions, each on a
Topics - 50 marks		separate topic area. Candidates answer two
2 hours 15 minutes		questions. Questions carry equal marks.
Exam Papers 12	% of GCE	Details
	, 0 01 0 02	2 ctains
Paper 1- Passages -	50% of the AS Level	The paper contains three questions.
•		
Paper 1- Passages -	50% of the AS Level	The paper contains three questions.
Paper 1- Passages - 50 marks	50% of the AS Level	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks
Paper 1- Passages - 50 marks	50% of the AS Level	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions
Paper 1- Passages - 50 marks 2 hours 15 minutes	50% of the AS Level 25% of the A Level	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks Two sections: Section A and Section B. Candidates answer two questions: one from
Paper 1- Passages - 50 marks 2 hours 15 minutes Paper 2 – Writing -	50% of the AS Level 25% of the A Level 50% of the AS Level	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks Two sections: Section A and Section B.
Paper 1- Passages - 50 marks 2 hours 15 minutes Paper 2 – Writing - 50 marks 2 hours	50% of the AS Level 25% of the A Level 50% of the AS Level 25% of the A Level	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks Two sections: Section A and Section B. Candidates answer two questions: one from Section A and one from Section B. Questions carry equal marks.
Paper 1- Passages - 50 marks 2 hours 15 minutes  Paper 2 – Writing - 50 marks 2 hours  Exam Papers 13	50% of the AS Level 25% of the A Level 50% of the AS Level 25% of the A Level % of GCE	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks Two sections: Section A and Section B. Candidates answer two questions: one from Section A and one from Section B. Questions carry equal marks.  Details
Paper 1- Passages - 50 marks 2 hours 15 minutes  Paper 2 – Writing - 50 marks 2 hours  Exam Papers 13  Paper 3- Text Analysis	50% of the AS Level 25% of the A Level 50% of the AS Level 25% of the A Level	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks  Two sections: Section A and Section B. Candidates answer two questions: one from Section A and one from Section B. Questions carry equal marks.  Details  The paper contains two questions. Candidates
Paper 1- Passages - 50 marks 2 hours 15 minutes  Paper 2 – Writing - 50 marks 2 hours  Exam Papers 13  Paper 3- Text Analysis - 50 marks	50% of the AS Level 25% of the A Level 50% of the AS Level 25% of the A Level % of GCE	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks Two sections: Section A and Section B. Candidates answer two questions: one from Section A and one from Section B. Questions carry equal marks.  Details The paper contains two questions. Candidates must answer both questions. Questions carry
Paper 1- Passages - 50 marks 2 hours 15 minutes  Paper 2 – Writing - 50 marks 2 hours  Exam Papers 13  Paper 3- Text Analysis	50% of the AS Level 25% of the A Level 50% of the AS Level 25% of the A Level % of GCE	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks  Two sections: Section A and Section B. Candidates answer two questions: one from Section A and one from Section B. Questions carry equal marks.  Details  The paper contains two questions. Candidates
Paper 1- Passages - 50 marks 2 hours 15 minutes  Paper 2 – Writing - 50 marks 2 hours  Exam Papers 13  Paper 3- Text Analysis - 50 marks	50% of the AS Level 25% of the A Level 50% of the AS Level 25% of the A Level % of GCE	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks Two sections: Section A and Section B. Candidates answer two questions: one from Section A and one from Section B. Questions carry equal marks.  Details The paper contains two questions. Candidates must answer both questions. Questions carry
Paper 1- Passages - 50 marks 2 hours 15 minutes  Paper 2 – Writing - 50 marks 2 hours  Exam Papers 13  Paper 3- Text Analysis - 50 marks 2 hours 15 minutes	50% of the AS Level 25% of the A Level 50% of the AS Level 25% of the A Level  % of GCE 25% of the A Level	The paper contains three questions. Candidates answer two questions: Question 1, and either Question 2 or Question 3. Questions carry equal marks  Two sections: Section A and Section B. Candidates answer two questions: one from Section A and one from Section B. Questions carry equal marks.  Details  The paper contains two questions. Candidates must answer both questions. Questions carry equal marks.

### **Future Prospects:**

The analytical and communication abilities that an English degree provides are called 'transferable skills': they are useful in almost any occupation. When you are looking for a job, they are often the most valuable skills to have.

Because of this flexibility, English graduates find careers in a wide range of fields like publishing, teaching, advertising, law, journalism, mass media or charitable organizations.





# **ACCOUNTING**

Head of Department Mrs. Lincy Shibu

Exam Board Cambridge Subject Code 9706

## **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at the end of Year 13.

Course Details

### For Year 12:

Candidates for Cambridge International AS Level should study the AS Level content for Paper 1 and Paper 2. The syllabus content is divided into two main topic areas:

- 1. Financial Accounting
- 2. Cost Accounting.

	A			
<b>Content section</b>	Assessment	Topics included		
Financial Accounting Cost Accounting	Paper 1	1.1 The accounting cycle 1.2 Accounting for non-current assets 1.3 Reconciliation and verification 1.4 Preparation of financial statements 1.4.1 Adjustments to financial statements 1.4.2 Sole traders 1.4.3 Partnerships 1.4.4 Limited companies 1.5 Analysis and communication of accounting information to stakeholders 2.1 Costing for materials and labour 2.2 Traditional costing methods		
		2.2.1 Absorption costing 2.2.2 Marginal costing 2.2.3 Cost–volume–profit analysis 2.3 The application of accounting to business planning		
Financial Accounting Cost Accounting	Paper 2	<ul> <li>1.1 The accounting cycle</li> <li>1.2 Accounting for non-current assets</li> <li>1.3 Reconciliation and verification</li> <li>1.4 Preparation of financial statements</li> <li>1.4.1 Adjustments to financial statements</li> <li>1.4.2 Sole traders</li> <li>1.4.3 Partnerships</li> <li>1.4.4 Limited companies</li> <li>1.5 Analysis and communication of accounting information to stakeholders</li> <li>2.1 Costing for materials and labour</li> <li>2.3 Traditional costing methods</li> <li>2.3.1 Absorption costing</li> <li>2.3.2 Marginal costing</li> </ul>		
		<ul><li>2.3.3 Cost–volume–profit analysis</li><li>2.3 The application of accounting to business planning</li></ul>		





### For Year 13:

Candidates for Cambridge International A Level should study all the syllabus content. The syllabus content is divided into two main topic areas:

1. Financial Accounting

2. Cost and Management Accounting.

Content section	Assessment component	Topics included	
Financial Accounting Cost and Management Accounting	Paper 3	<ul> <li>1.1 Preparation of financial statements</li> <li>1.1.1 Manufacturing businesses</li> <li>1.1.2 Not for profit organisations</li> <li>1.1.3 Limited companies</li> <li>1.1.4 International Accounting Standards</li> <li>1.1.5 Auditing and stewardship of limited companies</li> <li>1.2 Business purchase and merger</li> <li>1.3 Consignment and Joint venture accounts</li> <li>1.4 Computerised accounting systems</li> <li>1.5 Analysis and communication of accounting information</li> <li>2.1 Activity based costing (ABC)</li> <li>2.2 Budgeting and budgetary control</li> <li>2.3 Standard costing</li> <li>2.4 Investment appraisal</li> </ul>	

#### How will I be assessed?

Exam Papers 12	% of GCE	Details	
Paper 1 - 30 marks 1 hour	30% of the AS Level 15 % of the A Level	30 multiple choice questions based on the AS Level syllabus content	
Paper 2 - 90 marks 1 hour 30 minutes	70% of the AS Level 35% of the A Level	Four structured questions on the AS Level syllabus content Question 1 on financial accounting (30 marks)  Questions 2 and 3 on financial accounting (2 × 15	
Exam Papers 13	% of GCE	marks) Question 4 on cost and management accounting (30 marks)  Details	
Paper 3 - 150 marks 3 hours	50% of the A Level	Paper 3 tests the additional content for the A Level, but also requires a knowledge and understanding of the AS Level content.  Section A: Four structured questions on financial accounting (4 × 25 marks)  Section B: Two structured questions on cost and management accounting (2 × 25 marks)	

### **Future Prospects:**

The field of accounting is challenging and exciting. It is the field where one becomes familiar with the very finer points of business. Here are some of the jobs accounting degree would be useful for: Actuary, Business development manager, Data analyst, Economist, Licensed conveyancer, Management consultant, Mortgage adviser, Purchasing manager Retail banker, Tax adviser.





# **BUSINESS STUDIES**

Head of Department Mrs. Lincy Shibu

Exam Board Cambridge Subject Code 9609

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at the end of Year 13.

### **Course Details**

For Cambridge International AS and A Level Business, candidates:

- take Papers 1 and 2 only (for the Cambridge International AS Level qualification)
- follow a staged assessment route by taking Papers 1 and 2 (for Cambridge International AS Level qualification) in one series, then Paper 3 (for the Cambridge International A Level qualification) in a later series
- take Papers 1, 2 and 3 in the same examination series, leading to the full Cambridge International A Level.

#### For Year 12

Unit Name	Topics Included	
Business and its environment	Enterprise	
	Business structure	
	<ul> <li>Size of business</li> </ul>	
	<ul> <li>Business objectives</li> </ul>	
	<ul> <li>Stakeholders in a business</li> </ul>	
People in organizations	Management and leadership	
	<ul> <li>Motivation</li> </ul>	
	Human resource management	
Marketing	• What is marketing?	
	Market research	
	The marketing mix	
Operations and project management	The nature of operations	
	<ul> <li>Operations planning</li> </ul>	
	<ul> <li>Inventory management</li> </ul>	
Finance and accounting	<ul> <li>The need for business finance</li> </ul>	
	<ul> <li>Sources of finance</li> </ul>	
	• Costs	
	<ul> <li>Accounting Fundamentals</li> </ul>	
	<ul> <li>Forecasting cash flows and managing</li> </ul>	
	<ul> <li>Working capital</li> </ul>	



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### For Year 13

Unit Name	Topics Included
Business and its environment	Business structure
	<ul> <li>Size of business</li> </ul>
	<ul> <li>External influences on business activity</li> </ul>
	<ul> <li>External economic influences on business behaviour</li> </ul>
People in organisations	Human resource management
	Organisational structure
	Business communication
Marketing	Marketing planning
-	Globalisation and international marketing
Operations and project management	Capacity utilization
	Lean production and quality management
	Project management
Finance and accounting	• Costs
-	<ul> <li>Budgets</li> </ul>
	<ul> <li>Contents of Published Accounts</li> </ul>
	<ul> <li>Analysis of Published Accounts</li> </ul>
	Investment Appraisal
Strategic Management	What is strategic management?
-	Strategic analysis
	Strategic choice
	Strategic implementation

## **Examination**

### How will I be assessed?

Assessment Component		Weighting	
Assessment Component	AS Level	A Level	
Paper 1 Short answer and essay 1 hour 15 minutes 40 marks			
Section A: Four short answer questions (20 marks)	20%	10%	
Section B: One essay from a choice of three questions (20 marks)		1.00/	
Based on the AS Level syllabus content		10%	
Paper 2 Data response 1 hour 30 minutes 60 marks Two data response questions based on AS Level syllabus content	60%	30%	
Paper 3 Case study 3 hours 100 marks Five questions and one essay (from a choice of two) based on a case study Based on the additional A Level syllabus content and also assumes knowledge and understanding of the AS Level syllabus content	-	50%	

## **Future Prospects:**

Many students use their Business Studies AS or A-Level to go directly into employment in a related field of work. When combined with Economics, Mathematics, Information Communication Technology, Sociology or English it makes a strong combination for a number of related degrees in many fields of Management, Finance, Law and Economics.





# **ECONOMICS**

Head of DepartmentExam BoardSubject CodeMrs. Lincy ShibuCambridge9708

## **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at the end of Year 13.

## **Course Details**

For Year 12:

The Cambridge International AS Level Economics qualification offers two different Papers:

• Paper 1 Multiple Choice and Paper 2 Data Response and Essay

## For Year 12

Unit Name	AS Level (Year 12) - Topics Included
1 Basic economic ideas and resource	a) Scarcity, choice and opportunity cost
allocation	b) Positive and normative statements
	c) Factors of production
	d) Resource allocation in different economic systems and
	issues of transition
	e) Production possibility curves
	f) Money
	g) Classification of goods and services
2 The price system and the micro	a) Demand and supply curves
economy	b) Price elasticity, income elasticity and
	cross-elasticities of demand
	c) Price elasticity of supply
	d) Interaction of demand and supply
	e) Market equilibrium and disequilibrium
	f) Consumer and producer surplus • meaning and significance
3 Government microeconomic	a) Maximum and minimum prices
intervention	b) Taxes (direct and indirect)
	c) Subsidies
	d) Transfer payments
	e) Direct provision of goods and services
	f) Nationalisation and privatisation
4 The macro economy	a) Aggregate Demand (AD) and Aggregate Supply
	b) Inflation
	c) Balance of payments
	d) Exchange rates
	e) The terms of trade
	f) Principles of absolute and comparative
	advantage
	g) Protectionism
5 Government macroeconomic	a) Types of policy: fiscal policy, monetary policy, and
intervention	supply-side policy
	b) Policies to correct balance of payments
	disequilibrium
	c) Policies to correct inflation and deflation • assessment of
	the effectiveness of fiscal,
	monetary and supply-side policies to correct
	inflation and deflation





# For Year 13

The Cambridge International A Level Mathematics qualification offers two different Papers:

Paper 3 Multiple Choice and Paper 4 Data Response and Essay

Unit Name	A Level (Year 13) - Topics Included
1Basic Economic Ideas and resource	a) Efficient resource allocation
Allocation	b) Externalities and market failure
	c) Social costs and benefits; cost-benefit analysis
2 The price system and the micro-	a) Law of diminishing the marginal utility
economy	b) Indifference curves and budget lines
	c) Types of cost, revenue and profit, short-run and
	long-run production
	d) Different market structures
	e) Growth and survival of firms
	f) Differing objectives of a firm
3 Government microeconomic	a) Policies to achieve efficient resource allocation
intervention	b) Equity and policies towards income and wealth
	redistribution
	c) Labour market forces and government
	intervention:
	d) Government failure in microeconomic
	intervention
4 The Macro Economy	a) Economic growth, economic development, and
·	sustainability
	b) National Income statistics
	c) Classification of countries
	e) The circular flow of income
	f) Money supply (theory)
	g) Keynesian and Monetarist schools
	h) The demand for money and interest rate
	determination
	i) Policies towards developing economies;
	policies of trade and aid
5 Government macroeconomic	a) Government macro policy aims
intervention	b) Inter-connectedness of problems
	c) Effectiveness of policy options to meet all





#### How will I be assessed?

Exam Papers 12	% of GCE	Details
Paper 1 Multiple Choice	40%	30 multiple choice questions
1 hour - 30 marks		based on the AS Level syllabus
		content
Paper 2 Data Response and	30%	Time:
Essay	30%	Section A: one data response
1 hour 30 minutes - 40 marks		question (20 marks)
		Section B: one structured essay
		from a choice of three (20
		marks)
		Based on the AS Level
		syllabus content
Exam Papers 13	% of GCE	Details
Paper 3 Multiple Choice	15%	30 multiple choice questions
1 hour 15 minutes - 30 marks		based on the A Level syllabus
		content
Paper 4 Data Response and	10%	Section A: one data response
Essays	25%	question (20 marks)
2 hours 15 minutes - 70 marks		Section B: two essays from a
		choice of six (50 marks)
		Based on the A Level syllabus
		content

### **Future Prospects:**

Studying Economics will help you develop transferable skills that will prepare you for studying at university or moving into the world of work. These include skills in data interpretation and essay writing. Suitable higher education courses include Economics degrees or degrees in Applied Economics such as Environmental Economics, Labour Economics, Public Sector Economics or Monetary Economics. You might choose to study Business Economics, Econometrics or a Business and Management degree. Economics students can follow a wide range of careers in industry, commerce, finance and the civil service.





# TRAVEL & TOURISM

Head of Department Mrs. Lincy Shibu

Exam Board Cambridge Subject Code 9395

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

### **Course Details**

### For Year 12

- Papers 1 and 2 only leading to the Cambridge International AS Level qualification or
- Follow a staged assessment route by taking Papers 1 and 2 (for the Cambridge International AS
  Level qualification) in one examination series, then Papers 3 and 4 (for the Cambridge
  International A Level qualification) in a later examination series

Content section	Assessment component	Topics included	
Principles of customer service in travel and tourism1.2	Paper 1	<ul> <li>1.1.1 The nature of travel and tourism</li> <li>1.1.2 The scale of the travel and tourism industry</li> <li>1.1.3 Factors affecting tourism and their impact</li> <li>1.1.4 The structure of the travel and tourism industry</li> <li>1.1.5 Subsectors of the travel and tourism industry</li> <li>1.2.1 Customers and their needs</li> <li>1.2.2 Impacts of quality customer service</li> <li>1.2.3 Assessing the quality of customer service in travel and tourism organizations</li> </ul>	
Coursework 4.1	Paper 2	<ul> <li>4.1 Introduction to Paper 2 Planning and managing a travel and tourism event</li> <li>4.2 Framework and content</li> <li>4.3 The coursework proposal form</li> <li>4.4 Assessment criteria for coursework</li> <li>4.5 Moderation of coursework</li> </ul>	

### For Year 13

- Papers 3 and 4 (for the Cambridge International A Level qualification) in a later examination series
- Papers 1, 2, 3 and 4 in the same examination series, leading to the full Cambridge International A Level.

Content section	Assessment component	Topics included
Destination marketing	Paper 3	<ul> <li>3.1 Defining the tourism market</li> <li>3.2 Building a destination brand</li> <li>3.3 Implementing the destination brand</li> <li>3.4 Monitoring the effectiveness of the destination brand</li> </ul>
Destination management	Paper 4	<ul><li>4.1 Organisations involved in destination management, their roles and priorities</li><li>4.2 Destination management</li><li>4.3 Impacts of tourism development</li></ul>



### How will I be assessed?

Assessment Component		Weighting	
		AS Level	A Level
Paper 1 The industry	2 hours 30 minutes		
Four questions, each worth 25 marks. Each of	question is subdivided into	67%	33%
four sub questions and may be based on stim	ulus material.		
	100 marks		
Paper 2 Planning and managing a travel a	and tourism event		
This is a coursework project which involves	1 0 0	33%	17%
travel and tourism event. Candidates work in	a team but present their		
project individually.			
Internally assessed, externally moderated.	50 marks		
Paper 3 Destination marketing	1 hour 30 minutes		
Two questions, each worth 25 marks. Each of	of these questions is based		25%
on stimulus material and is subdivided into the	hree sub questions.	-	25%
	50 marks		
Paper 4 Destination management	1 hour 30 minutes		
Two questions, each worth 25 marks. Each of	of these questions is based		25%
on stimulus material and is subdivided into the	hree sub questions.	_	23%
	50 marks		

## **Future Prospects:**

Having completed AS Level Travel and Tourism, students could choose a variety of career opportunities in the following positions

- Tour Managers
- Travel Agency Managers
- Customer Service Managers
- Event organiser
- Hospitality Management
- Marketing Executive





# **HISTORY**

Head of Department Mrs. Prabha Sinha

Exam Board Cambridge

Subject Code 9489

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

### **Course Details**

### For Year 12

	Paper 1	Paper 2
European option: Modern Europe, 1750–1921	Liberalism and nationalism in Germany, 1815–71	<ul> <li>France, 1774–1814</li> <li>The Industrial Revolution in Britain, 1750–1850</li> <li>The Russian Revolution, 1894– 1921</li> </ul>
American option: The History of the USA, 1820–1941	• The origins of the Civil War, 1820–61	<ul> <li>Civil War and Reconstruction, 1861–77</li> <li>The Gilded Age and Progressive Era, 1870s to 1920</li> <li>The Great Crash, the Great Depression and the</li> <li>New Deal policies, 1920–41</li> </ul>
International option: International history, 1870– 1945	The League of Nations and international relations in the 1930s	<ul> <li>Empire and the emergence of world powers,</li> <li>1870–1919</li> <li>The League of Nations and international relations</li> <li>in the 1920s</li> <li>China and Japan, 1912–45</li> </ul>

## For Year 13

## Paper 3

- Topic 1: The origins of the First World War
- Topic 2: The Holocaust
- Topic 3: The origins and development of the Cold War

### Paper 4

- European option, Depth study 1: European history in the interwar years, 1919–41
  - Theme 1: Mussolini's Italy, 1919–41
  - Theme 2: Stalin's Russia, 1924-41
  - Theme 3: Hitler's Germany, 1929–41
  - Theme 4: Britain, 1919-39



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- American option, Depth study 2: The USA, 1944–92
  - Theme 1: The late 1940s and 1950s
  - Theme 2: The 1960s and the 1970s
  - Theme 3: The 1980s and early 1990s
  - Theme 4: Foreign policy, 1944–92
- International option, Depth study 3: International history, 1945–92
  - Theme 1: US-Soviet relations during the Cold War, 1950-91
  - Theme 2: The spread of communism in East and Southeast Asia, 1945–91
  - Theme 3: Decolonisation, the Cold War and the UN in Sub-Saharan Africa, 1950-92
  - Theme 4: Conflict in the Middle East, 1948-91

### **Examination**

#### How will I be assessed?

Exam Papers - Year 12	% of GCE	Details
Paper 1 – 40 marks 1 hour 15 minutes	40% of the AS Level 20% of the A Level	Candidates answer one two-part document question on one of the options given. Candidates must answer both parts of the question they choose.
Paper 2 – 60 marks 1 hour 45 minutes	60% of the AS Level 30% of the A Level	Candidates answer two two-part questions from three on one of the options given. Candidates must answer both parts of the questions they choose.
Exam Papers - Year 13	% of GCE	Details
Paper 3 Interpretations question 40 marks 1 hour 15 minutes	20% of total marks	Candidates answer one interpretation question on one of the options given in the syllabus
Paper 4 Depth study – 60 marks 1 hour 45 minutes	30% of total marks	Candidates answer two questions on their chosen depth study

#### **Future Prospects:**

The skills you will obtain through studying History will be useful in a number of careers and higher education options, either directly related to History (e.g. working in museums, galleries, heritage sites, record offices and archives and teaching), or in areas such as Journalism, Law, Libraries, National and Local Government, the Civil Service and business management.





# **GEOGRAPHY**

Head of Department Mrs. Prabha Sinha

Exam Board Cambridge

Subject Code 9479

## **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

### **Course Details**

### For Year 12

The Cambridge International AS Level Geography qualification consist of two papers (Paper 1 and Paper 2).

Content section	Assessment component	Topics included
Core Physical Geography	Paper 1	1.Hydrology and fluvial geomorphology 2.Atmosphere and weather 3.Rocks and weathering
Core Human Geography	Paper 2	1.Population 2.Migration 3.Settlement dynamics

**For** 

### Year 13

The Cambridge International A Level Geography qualification consist of two papers Paper 3 and Paper 4.

Content section	Assessment component	Topics included
Advanced Physical Geography Options	Paper 3	1.Tropical environments 2.Coastal environments 3.Hazardous environments 4.Hot arid and semi-arid environments
Advanced Human Geography Options	Paper 4	1.Production, location and change 2.Environmental management 3.Global interdependence 4.Economic transition





### How will I be assessed?

Exam Papers – Year 12	% of GCE	Details
Paper 1 - 60 marks	50% of the AS Level	Core Physical Geography
1 hour 30 minutes	25% of the A Level	Section A: Three data response questions (30
		marks)
		Section B: One structured question from a choice
		of three (30 marks)
Paper 2 - 60 marks	50% of the AS Level	Core Human Geography
1 hour 30 minutes	25% of the A Level	Section A: Three data response questions (30
		marks)
		Section B: One structured question from a choice
		of three (30 marks)
Exam Paper – Year 13	% of GCE	Details
Paper 3- 60 marks	25% of the A Level	Advanced Physical Geography Options
1 hour 30 minutes		Candidates answer questions on two of the
		optional topics.
		Each topic consists of one structured question
		(10 marks) and a choice of essay questions (20
		marks).
Paper 4 - 60 marks	25% of the A Level	Advanced Human Geography Options
1 hour 30 minutes		Candidates answer questions on two of the
		optional topics.
		Each topic consists of one structured question
		(10 marks) and a choice of essay questions (20
		marks).

## **Future Prospects:**

Geography provides you with a wealth of transferable skills that enables you to flourish in a wide range of professions including: Advertising, Environmental Sustainability, Surveying, Marketing, Charities, GIS, Data Analyst, Cartographer, Coastal Engineer, Flood Protection Manager, Travel & Tourism, Cultural Guides, Human Rights Officer, and United Nations Diplomat.





# **SOCIOLOGY**

<u>Head of Department</u> Mrs. Prabha Sinha Exam Board Cambridge Subject Code 9699

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

### **Course Details**

### For Year 12

The Cambridge International AS Level Sociology qualification has Paper 1 and Paper 2, both of which are compulsory.

Content section	Assessment component	Topics included
Unit 1: The Family	Paper 1	<ul> <li>The family and social change</li> <li>Family roles, marriage and changing relationships</li> <li>The social construction of age</li> </ul>
Unit 1:Theory and methods	Paper 2	<ul> <li>The sociological perspective</li> <li>Socialisation and the creation of social identity</li> <li>Methods of research</li> <li>The relationship between theory and methods</li> </ul>

# For Year 13

Cambridge International A Level candidates have two choices. Candidates who want to take the whole of the Cambridge International A Level qualification at the end of a course of study take all three papers together. Candidates who want to get the Cambridge International A Level qualification in two stages take the Cambridge International AS Level first. If they pass Cambridge International AS Level, they then only need to take Paper 3 in order to complete the Cambridge International A Level.

Content section	Assessment component	Topics included
UNIT 3: Education UNIT 4: Global development UNIT 5: Media UNIT 6: Religion	Paper 3	<ul> <li>Education in social context</li> <li>Structures and processes within schools</li> <li>Development and inequality</li> <li>Global issues</li> <li>Ownership and control of the media</li> <li>Media representation and effects</li> <li>Religion and social change</li> <li>Religious movements</li> </ul>





#### How will I be assessed?

Exam Papers AS level/ Year	% of GCE	Details
12		
Paper 1 – 50 marks	50% of total marks	Candidates answer one compulsory
1 hour 30 minutes		data response question and one essay question from a choice of two.
Paper 2 – 50 marks	50% of total marks	Candidates answer one compulsory
1 hour 30 minutes		data response question and one essay
		question from a choice of two.
Exam Papers 13	% of GCE	Details
Paper 3 - 75 marks	50% of total marks	Candidates answer three essay style
3 hours		questions from four sections with two questions per section.

### **Future Prospects:**

Social care involves working with vulnerable populations who experience disadvantage or who are marginalised - for example, people with disabilities, people who are homeless or have dependencies, families in the community, older people and recent immigrants. Sociologists analyse the social world and also provide advice to governments, organisations, and communities. Sociologists have analytical and research skills that are valuable in a number of occupations from policy analyst to community worker and journalist. Sociology is a good preparation for careers in business, politics, community work or other professions.





# **PSYCHOLOGY**

Head of DepartmentExam BoardMrs. Prabha SinhaCambridge

Subject Code 9990

### **Content Overview**

The AS Level Psychology course is examined at the end of Year 12 and the A-Level at end of Year 13.

### **Course Details**

### For Year 12

The Cambridge International AS Level Psychology qualification has Paper 1 and Paper 2, both of which are compulsory. It consists of core studies which are considered in the context of a number of approaches. It includes approaches, issues and debates and research methods which needs to be considered for each study.

Content	Assessment	Topics included
section	component	
Unit 2-5	Paper 1 Approaches,	Unit 2: Biological approach
	Issues and Debates	Core study 1: Canli et al.
		Core study 2: Dement and Kleitman
		Core study 3: Schachter and Singer
		Unit 3: Cognitive approach
		Core study 1: Andrade (doodling)
		Core study 2: Baron-Cohen et al. (Eyes test)
		Core study 3: Laney et al (false memory)
		Unit 4: Learning approach
		Core study 1: Bandura et al (aggression)
		Core study 2: Saavedra and Silverman (button phobia)
		Core study 3: Pepperberg (parrot learning)
		Unit 5: Social approach
		Core study 1: Milgram (obedience)
		Core study 2: Piliavin et al. (subway Samaritans)
		Core study 3: Yamamoto et al. (chimpanzee helping)
Unit 1	Paper 2 Research	Experiments
	methods	Self-reports
		Case studies
		Observations
		Correlations
		Research processes
		The definition, manipulation, measurement and control of
		variables
		Sampling of participants
		Data and data analysis
		Ethical considerations
		Evaluating research: methodological issues

### For Year 13

The Cambridge International A Level Psychology qualification has Paper 3 and Paper 4, both of which are compulsory. Candidates are required to study how psychology is applied in two of the following four areas: Abnormality, Consumer behaviour, Health and Organisations.



# The Winchester School

Content	Assessment	Topics included
section	component	
Unit 6	Paper 3 & Paper 4	Abnormality
		Schizophrenic and psychotic disorders
		Bipolar and related disorders
		Impulse control disorders and nonsubstance addictive disorders
		Anxiety disorders
		Obsessive compulsive and related disorders
Unit 7		Consumer Behaviour
		The physical environment
		The psychological environment
		Consumer decision making
		The product
		Types of advertising and advertising techniques
Unit 8		Psychology and Health
		The patient – practitioner relationship
		Adherence to medical advice
		Pain
		Stress
		Health promotion
Unit 9		Psychology and organisations
		Motivation to work
		Leadership and management
		Group behaviour in organisations
		Organisational work conditions
		Satisfaction at work

# **Examination**

### How will I be assessed?

Exam Papers - Year 12	% of GCE	Details
Paper 1 – 60 marks 1 hour 30 minutes	50% of total marks	Candidates answers all the questions presented.
Paper 2 – 60 marks 1 hour 30 minutes	50% of total marks	Candidates answers all the questions presented.
Exam Papers – Year 13	% of GCE	Details
Paper 1 – 60 marks 1 hour 30 minutes	25% of total marks	Candidates answers two questions from two specialist options.
Paper 2 – 60 marks 1 hour 30 minutes	25% of total marks	Candidates answers questions from two specialist options. Section A candidate answers <b>two</b> questions from choice of four. Section B candidate answer <b>one</b> design-based question from a choice of four. Section C candidate answers <b>one</b> essay answer from a choice of four.

### **Future Prospects:**

Psychology is a challenging, fascinating, and strongly academic, subject. Psychology is a rapidly expanding subject with strong career potential – the science of the 21st Century. Realistic careers include Management, Marketing, Advertising, Profiling, Recruitment, Education, Coaching / Training, Healthcare, Forensic Law, Forces Officership, Counselling / Therapy, and Research work.





# **INFORMATION TECHNOLOGY**

Head of DepartmentExam BoardSubject CodeMrs. Shirin FarzanaCambridge9626

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

### **Course Details**

Candidates for Cambridge International AS Level Information Technology study topics 1–10. Candidates for Cambridge International A Level Information Technology study all topics. The content of the AS Level topics 1–10 is assumed knowledge for the A Level components.

#### For Year 12:

Content section	Assessment component	Topics included
Theory	Paper 1	<ol> <li>Data, information, knowledge and processing</li> <li>Hardware and software</li> <li>Monitoring and control</li> <li>E Safety and health and safety</li> <li>The digital divide</li> <li>Using networks</li> <li>Expert systems and other types of processing</li> </ol>
Practical	Paper 2	<ul><li>8. Spreadsheets</li><li>9. Database and file concepts</li><li>10. Sound and video editing</li></ul>

### For Year 13:

Content section	Assessment component	Topics included
Theory	Paper 3	<ul><li>11. Emerging technologies</li><li>12. Role and impact of IT in society</li><li>13. Networks</li><li>14. Project management</li><li>15. System life cycle</li></ul>
Practical	Paper 4	16.Graphics creation 17. Animation 18. Mail merge 19. Programming for the web





### How will I be assessed?

Paper	Weighting	Details	
AS Level			
Paper 1 - 90 marks 1 hour 45 minutes	50% of AS Level 25% of A Level	This written paper tests sections 1–10 of the syllabus content. Candidates answer each question in the spaces provided on the question paper. All questions are compulsory.	
Paper 2 - 110 marks 2 hours 30 minutes	50% of AS Level 25% of A Level A level	This paper tests sections 8–10 of the syllabus content. Candidates will also need to use their previous knowledge from sections 1–7. All tasks are compulsory. Candidates must use the most appropriate software and the most appropriate methods.	
Paper 3 - 90 marks 1 hour 45 minutes	25% of A Level	This written paper tests sections 11–19 of the syllabus content. The content of sections 1–10 is assumed knowledge. Candidates answer each question in the spaces provided on the question paper. All questions are compulsory	
Paper 4 - 110 marks 2 hours 30 minutes	25% of A Level	This paper tests sections 16–19 of the syllabus content, and sections 8–9 of the syllabus content within a problem-solving context. Candidates will also need to use their previous knowledge from all sections of the syllabus. All tasks are compulsory. Candidates must use the most appropriate software and the most appropriate methods.	

## **Future Prospects:**

With further training or study, students can go into careers such as End User Support Technician or IT Support Officer or Technician. This syllabus prepares you for employment and provides a good grounding to go on to a more advanced course for IT Practitioners, an advanced course in ICT or Installation and Networking.





# COMPUTER SCIENCE

Head of DepartmentExam BoardSubject CodeMrs. Shirin FarzanaCambridge9618

### **Content Overview**

The AS course is examined at the end of Year 12 and the A-Level as a whole at end of Year 13.

### **Course Details**

For Cambridge International AS and A Level Computer Science, candidates may choose to take:

- Papers 1, 2, 3 and 4 in the same examination series, leading to the full Cambridge International A Level
- Papers 1 and 2 (for the AS Level qualification) in one series, then Papers 3 and 4 (for the full Cambridge International A Level) in a later series
- Papers 1 and 2 only (for the AS Level qualification).

### For Year 12:

<b>Content section</b>	Assessment component	Topics included
AS	Section 1 Theory Fundamentals	<ol> <li>Information representation</li> <li>Communication and Internet technologies</li> <li>Hardware</li> <li>Processor fundamentals</li> <li>System software</li> <li>Security, privacy and data integrity</li> <li>Ethics and ownership</li> <li>Database and data modelling</li> </ol>
AS	Section 2 Fundamental Problem-solving and Programming	<ul><li>9. Algorithm design and problem-solving</li><li>10. Data types and structures</li><li>11. Programming</li><li>12. Software development</li></ul>

## For Year 13:

<b>Content section</b>	Assessment component	Topics included
A Level	Section 3 Advanced Theory	13. Data representation 14. Communication and Internet technologies 15. Hardware and virtual machines 16. System software 17. Security 18. Artificial Intelligence (AI) 19. Computational thinking and problem-solving 20. Further programming
A Level	Section 4 Practical	19. Further programming 20. Software development





#### How will I be assessed?

Exam Papers	Weighting	Details	
	AS Level		
Paper 1 - 75 marks	50% of AS Level	This written paper contains	
1 hour 30 minutes	25% of A Level	short-answer and structured	
		questions. There is no	
		choice of questions.	
Paper 2 - 75 marks	50% of AS Level	This written paper contains	
2 hours	25% of A Level	short-answer and structured	
		questions. There is no	
		choice of questions. Topics	
		will include those given in	
		the pre-release material.	
	A level		
Paper 3 - 75 marks	25% of A Level	This written paper contains	
1 hour 30 minutes		short-answer and structured	
		questions. There is no	
		choice of questions.	
Paper 4 - 75 marks	25% of A Level	This written paper contains	
2 hours		short-answer and structured	
		questions. There is no	
		choice of questions. Topics	
		will include those given in	
		the pre-release material	

### **Future Prospects:**

- A Level Computer Science offers transferrable and desirable professional skills leading to jobs in coding, support, project management, systems analysis, web development, network management, software development, research and many more.
- Their skills are highly applicable in Business, Finance and Mathematics all of which are highly desirable subjects for routes into Banking, Actuarial Science, Insurance and Research.
- With further training or study of Computer science, students can pursue into careers such as:
  - •Software Developers
  - App Developers
  - •Software Engineers
  - •Web Developers
  - •Graphic Designer
  - •IT Managers
  - •IT System Engineer
  - •Network Administrator
  - •IT Administrator





# BTEC INTERNATIONAL LEVEL 3

<u>Head of Department</u> Mrs. Shalini Exam Board Pearson

**Specification** 

BTEC is the world's most successful and well-applied learning brand, and has been engaging learners in practical, interpersonal and thinking skills for over 25 years. BTEC is vocational qualification designed to give students the skills they need to either move on to higher education or go straight into employment.

BTEC International Level 3 programmes allow learners to apply knowledge and skills to their local environment and context. With a focus on practical, skills-based learning, BTEC courses are designed around a number of themed units. Learners will study a number of units for which they will need to present evidence, based on actual work and studies. This allows them to demonstrate their skills and knowledge, while building their portfolio of work. Rather than testing everything together at the end of the course, BTECs give learners the opportunity to show what they have learnt in each unit and build on their achievements as they progress. That means there are plenty of chances for them to learn, improve and succeed.

The best-known BTEC options offered at Winchester School are

- Pearson BTEC International Level 3 Diploma in Information Technology
- Pearson BTEC International Level 3 Diploma in Information Technology
- Pearson BTEC International Level 3 Diploma in Applied Science

### **Aims of the Course**

The key to doing well in this subject is time management. There will always be coursework deadlines to meet, so even though there is no pressure of examinations to worry about, it is not an easy option. The benefit of undertaking a coursework subject like BTEC is that when you have submitted work, you can have the opportunity to improve it, unlike an examination subject which is a one off assessment. You will develop excellent research skills and also become an excellent independent learner. These are all valuable skills when moving onto higher education or the workplace.

# **Assessment Objectives**

BTECs are made up of a number of units, which are usually assessed through assignments that are both set and marked by your teacher. Assignments involve a series of tasks designed around a work-related, real-life scenario. These assignments can be in various formats such as written essays, video recordings or group presentations as determined and accepted by your teachers. Assignments give learners the chance to build knowledge and skills over time and deliver a complete, integrated project using a combination of knowledge, skills and behaviours.

<u>Note</u> - BTEC is a 2 year program it can be studied alone or as a hybrid program in combination with A levels. Please note that One BTEC is equivalent to 2 A levels. BTEC is a highly recognized in UK and does not require equivalency from UAE ministry of education for universities in UK. Please check on acceptance of BTEC in the university you wish to pursue.



# **Pearson BTEC International Level 3 Diploma in Business**

The specification is designed to appeal to both full-time learners interested in a career in business and to those who already have experience of working in the sector. Learners can focus on their career aspirations, or work area within the specification in which there are six specialist pathways consisting of Finance, Management, Marketing, Law, Administration, and Human Resources.

### **Mandatory units**

There are five mandatory units, three internal units and two set assignment units. Students must complete and achieve a Pass or above in all mandatory units.

### **Optional units**

Students must complete optional units totalling at least 240 Guided Learning Hours (GLH).

	Mandatory Units		
Unit	Content		
1	Exploring Business		
2	Research and Plan a Marketing Campaign		
3	Business Finance		
4	Managing an Event		
7	Business Decision Making		
	Optional Units		
5	International Business		
6	Principles of Management		
8	HumanResources		
9	Team Building in Business		
10	Recording Financial Transactions		
11	Financial Statements for Public Limited Companies		
12	Financial Statements for Specific Businesses		
13	Cost and Management Accounting		
14	Investigating Customer Service		
15	Investigating Retail Business		
16	Visual Merchandising		
17	Digital Marketing		
18	Creative Promotion		
19	Pitching for a New Business		
20	Business Ethics		
22	Market Research		
23	Work Experience in Business		
24	Branding		
25	Relationship Marketing		
26	Procurement Processes in Business		
27	International Logistics		
28	Sales Techniques and Processes		
29	Health and Safety in the Workplace		
30	Career Planning		
31	Effective Project Management		
32	Business and Environmental Sustainability		



# Pearson BTEC International Level 3 Diploma in Applied Science

The Pearson BTEC qualifications in this specification will appeal to learners who prefer portfolio-based assessment covering a variety of scientific investigations.

Units within the qualification cover areas of laboratory science, forensic science, medical science, environmental science and biological, chemical and physical science to provide a route to employment in the science industry or within organisations that use science. These can include roles such as:

- working as a quality control technician/analyst, where the employee works in a production plant laboratory carrying out analytical tests using modern instrumentation, ICT and data interpretation
- working in a hospital as a medical physics technician supporting the use of X-ray and other imaging/ scanning equipment
- working in a research laboratory in the development of new drugs. Managing projects that include setting up apparatus, measuring and handling chemical substances, following procedures, carrying out observations and measurements, separating and analysing products
- working in the chemical industry, involved with testing materials
- working with the forensic science service or using their analytical skills in the chemistry industry
- working in chemical companies developing fertilisers and other plant feeds
- working for a scientific magazine or journal, editing and proofreading articles on issues such as applications and implications of new scientific discoveries and developments
- working in a biotechnology laboratory carrying out fermentation and purification processes.

# **Mandatory units**

There are seven mandatory units, of which three are set assignment units. Students must complete and achieve a Pass or above in all mandatory units.

# **Optional units**

Students must complete optional units to a minimum value of 240 GLH.

Mandatory Units			
Unit	Content		
1	Principles and Applications of Biology I		
2	Principles and Applications of Chemistry I		
3	Principles and Applications of Physics I		
4	Investigative Project Skills		
5	Principles and Applications of Biology II		
6	Principles and Applications of Chemistry II		
7	Principles and Applications of Physics II		
	Optional Units		
11	Functional Physiology of Human Body Systems		
12	Human Regulation and Reproduction		
13	Biological Molecules and Metabolic Pathways		
14	Genetics and Genetic Engineering		
15	Diseases and Infections		
16	Applications of Inorganic Chemistry		
17	Electrical Circuits and their Applications		
18	Astronomy and Space Science		
19	Microbiology and Microbiological Techniques		





# Pearson BTEC International Level 3 Diploma in Information Technology

BTEC Level 3 in IT qualifications are designed to relate to the National Occupational Standards for the sector. On successful completion of a BTEC Level 3 in IT qualification, learners can progress into or within employment and/or continue their study in the same vocational area. This specification provides content and structures that help learners to acquire the skills and knowledge needed to work as professionals in the IT sector.

### **Mandatory units**

There are two mandatory units that are set-assignment assessment units. Learners must complete and achieve a Pass or above in the two mandatory internal units.

## **Optional units**

Learners must complete optional units to a minimum value of 540 GLH.

Mandatory units							
Unit	Content						
1	Information Technology						
	Systems – Strategy, Management and Infrastructure						
6	6 Website Development						
Optional units							
2	Creating Systems to Manage Information						
3	Using Social Media in Business						
4	Programming						
5	Data Modelling						
7	Mobile Apps Development						
8	Computer Games Development						
9	IT Project Management						
10	Big Data and Business Analytics						
11	Cyber Security and Incident Management						
12	IT Technical Support and Management						
13	Software Testing						
14	Customising and Integrating Applications						
15	Cloud Storage and Collaboration Tools						
16	Digital 2D and 3D Graphics						
17	Digital Animation and Effects						
18	The Internet of Things						
19	Enterprises in IT						
20	Business Process Modelling Tools						





# Pearson BTEC International Level 3 Diploma in Hospitality

BTEC Level 3 qualifications in hospitality give learners the opportunity to make progress in the sector, whether their chosen route is employment, an apprenticeship or university. All qualifications for this sector introduce learners to essential understanding in the following areas of the hospitality industry:

- scale and diversity
- classification systems
- organisation and structure of businesses operating in this industry
- purpose of support functions in hospitality such as finance and marketing.

### **Mandatory units**

There are five mandatory units, of which four are set assignment units. Learners must complete and achieve a Pass or above in the mandatory unit.

### **Optional units**

Learners must complete at least seven optional units.

Mandatory units							
Unit	Content						
1	The Hospitality Industry						
2	Environmentand Sustainability in the Hospitality Industry						
3	Customer Service Provision in Hospitality						
4	The Principles of Leadership and Supervision						
5	Cost Control for Hospitality Supervisors						
Optional units							
6	Hospitality Business Enterprise						
7	Supervise Food Service Operations						
8	Supervise Food and Beverage Service						
9	Supervise Alcohol Beverage Service						
10	Supervision of Food Safety in Hospitality						
11	Contemporary Global Cuisine						
12	The Cuisine of Your Country						
13	European Cuisine						
14	Luxury Hospitality						
15	Front Office Operations						
16	Accommodation Operations						
17	Team Development						
18	Conference and Banqueting						



# **BTEC International Level 3 University Recognition**

These universities have indicated that they will consider one or more of the BTEC International Level 3 qualifications as an entry qualification to relevant courses. Students should be aware that university admission criteria are always subject to change and understand the course entry requirements for both subject and grade before applying.

Central Queensland University	Australia	London M	etropolitan University	UK
Curtin University	Australia	London So	outh Bank University	UK
University of New England	Australia	Queen Ma	ry's London	UK
University of Tasmania	Australia	Sheffield H	Hallam University	UK
Acadia University	Canada	St Mary's l	University	UK
Brock University	Canada	University	of Aberdeen	UK
Mount Saint Vincent University	Canada	University	of Bournemouth	UK
University of Lethbridge	Canada	University	of Chichester	UK
City Unity College	Cyprus	University	of East Anglia	UK
University of Central Lancashire Cyprus	Cyprus	University	of Huddersfield	UK
EEGP Design Institute	France	University	of Surrey	UK
Hong Kong Shue Yan University	Hong Kong	University	of South Wales	UK
Al Hussain Technical Universities	Jordan	University	of the West of England	UK
Luminus Technical University College	Jordan	University	of Ulster	UK
Riara University	Kenya	University	of Wolverhampton	UK
University of Saint Joseph	Macao	University	of York	UK
African Leadership University	Mauritius	Westminst	ter University	UK
Auckland Institute of Studies	New Zealand	Columbia	College Chicago	US
Massey University	New Zealand	Johnson a	nd Wales University	US
Northwestern University in Qatar	Qatar	Miami Uni	versity Ohio	US
Istanbul Gelisim University	Turkey	Northwoo	d University	US
Istanbul Okan University	Turkey	Slippery R	ock University	US
American University of Dubai	UAE	Suffolk Un	iversity, Boston Massachusetts	US
University of Bolton Ras Al Khaimah Car	npus UAE	Temple Ur	niversity	US
Aberystwyth University	UK	Texas Wes	sleyan University	US
Bangor University	UK	Western N	lew England University	US
Brighton University	UK	Krems Uni	iversity	Uzbekistan
Brunel University	UK	TEAM Univ	versity	Uzbekistan
Cardiff Metropolitan University	UK	Turin Poly	technic University in Tashkent	Uzbekistan
City, University of London	UK			
Falmouth University	UK			
John Moores University	UK			
Keele University	UK			
Leeds Trinity University	UK			
Lincoln University	UK			





## **USEFUL WEBSITE**

### **CAREERS**

www.u-explore.com – a useful guide to careers and employability solutions
 www.prospects.ac.uk – this site will show you which careers you can do with a range of degrees.
 It has case studies, employment prospects and examples of jobs that you can consider. Also on this site is 'What do Graduates Do?'. This shows statistical information about the destinations of graduates from a wide range of disciplines. This is an essential site to visit when deciding on your degree.

### **HIGHER EDUCATION**

<u>www.ucas.com</u> – the first place to look for course searches, links to HE websites and online applications

www.unifrog.com

<u>www.ukcoursefinder.com</u> – another good way to look at specific courses <u>www.timesonline.co.uk</u> (search for university in the search bar) – a site that looks at university rankings and enables you to see which institutions are highly ranked. Use as a guide only – data goes out of date quickly and there are many other factors to consider other than just the rankings. <u>www.bestvalueHE.org.uk</u> – helps you to find detailed graduate information – what happens to students after they graduate.

<u>www.studentfinance.direct.gov.uk</u> – all the information you will need regarding finance to get to university and how to finance your time there.

