



Senior School
Welcome to the IGCSE Programme

Graduate Worldwide

DULWICH COLLEGE | SHANGHAI PUXI |

上海德威外籍人员子女学校（浦西）





providing a stage on which

to play a leading role

in you securing your future

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Graduate Worldwide

Our Vision

To create the best schools in the world.

Our Purpose

Our students make a difference in the world.

Our Vision and Purpose are supported by three strategic pillars governing our decision-making and our actions.

Students Come First

One College, Many Campuses

Pioneering Spirit

Our motto, *Detur Pons Mundo*, is translated as "Building Bridges to the world".

Philosophy and Objectives

- ✿ The College develops the complete individual
- ✿ The College challenges individuals to strive for excellence
- ✿ The College encourages respectful collaboration
- ✿ The College celebrates the diversity of its community
- ✿ The College is committed to developing charitable and compassionate individuals who are willing to contribute to the community
- ✿ The College provides individuals with the skills and outlook to live and work in all areas of the globe
- ✿ The College prepares individuals to meet the challenges of an ever-changing world
- ✿ The College aims to develop confident individuals prepared to take risks

What is the IGCSE/GCSE Programme?

The Year 10 and 11 curriculum at Dulwich College Shanghai Puxi is based on the programmes offered by the University of Cambridge Local Examinations Syndicate (UCLES) and Edexcel, which have offered IGCSE and GCSE subjects as an integral part of their international examination provision for many years. Furthermore, the IGCSE and GCSE qualification is recognised by academic institutions and employers around the world.

The IGCSE and GCSE examination programme has been designed for 14 to 16 year olds and is a two-year course. It aims to prepare students for further academic success, including progression to the International Baccalaureate Diploma Programme.

Students will primarily be following IGCSE courses. In some subjects the students will follow GCSE courses, the UK based equivalent. It is important to note that these situations will be in a minority and where these courses have been selected, it is because they most suitably prepare our students for the International Baccalaureate Diploma Programme in Years 12 and 13.

The IGCSE curriculum in particular allows teaching to be placed in a localised context, making it relevant in different regions of the world. It is also suitable for students whose first language may not be English and this is acknowledged throughout the examination process. However, it is essential to note that English is the language of instruction at Dulwich Puxi and as such, students do require a good level of competency in this area in order to fulfil their potential.

Assessment at IGCSE/GCSE

At the end of the two-year programme, students are assessed both internally and externally in ways that measure individual performance against stated objectives for each subject.

Internal Assessment (Coursework)

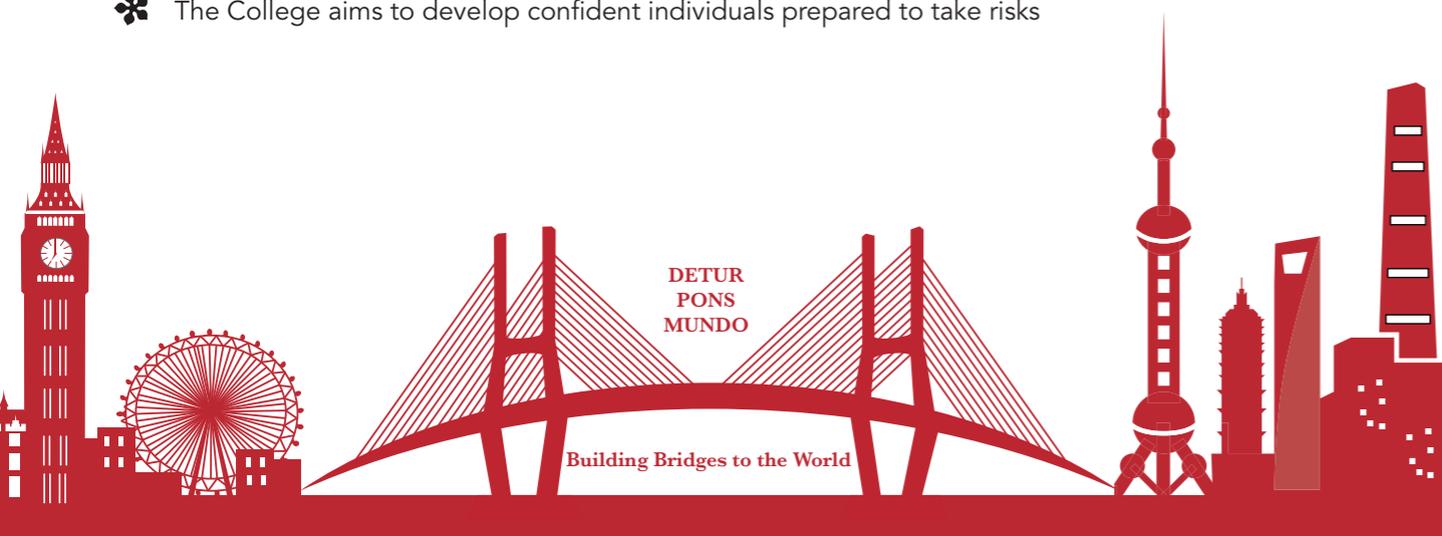
In certain subjects some of the assessment is carried out internally by teachers, who mark individual pieces of work produced as part of the course of study. Examples include oral exercises in language subjects, projects, student portfolios, class presentations, practical laboratory work and artistic performances. Most assessment tasks are conducted and overseen by teachers and moderated externally by IGCSE/GCSE Examiners.

External Assessment

Due to the greater degree of objectivity and reliability provided by the standard examination environment, externally marked examinations form the greatest share of assessment for each subject.

The grading system for all Cambridge examinations is based on an eight-point scale A* – G. Edexcel examinations have now changed to be based on a nine-point scale from 9-1. Further information on how to interpret and compare these grading scales will be given at key times throughout the course.

IGCSE/GCSE is the world's most popular international curriculum for 14-16 year olds, leading to globally recognised IGCSE and GCSE qualifications. In many countries, IGCSE/GCSE courses are widely used as a preparation for AS/A Level, IB Diploma Programme and US Advanced Placement courses. Grade C in IGCSE English as a First Language satisfies the English proficiency requirements of many universities in the UK and other Anglophone countries.



Examination Boards and Course Specifications



The following subject areas follow the IGCSE course set by the University of Cambridge International Examinations Board:

- First Language Chinese
- Chinese as a Second Language
- Mandarin as a Foreign Language
- First Language English
- English as a Second Language
- Mathematics and Additional Mathematics
- Geography
- Spanish as a Foreign Language
- Business Studies
- Computer Science
- Music
- Drama
- Physical Education



The following subject areas follow the IGCSE course set by Edexcel:

- Biology
- Chemistry
- Physics
- History

The following subject areas follow the GCSE course set by Edexcel:

- Fine Art

Course information and assessment information for each subject can be found within the specific subject guides later in this booklet.

If you would like further information or detailed subject guides please visit the following websites:

<http://www.cambridgeinternational.org/>

<http://www.edexcel.org.uk>

Frequently Asked Questions

When do students begin the IGCSE Programme?

The I/GCSE programme at Dulwich Puxi usually begins in Year 10 and is completed in the summer term of Year 11. In addition, within Mathematics, some students may begin the IGCSE course in Year 9 and sit the IGCSE examinations in Term 3 of Year 10. These students will then follow the IGCSE Additional Mathematics course in Year 11 to further extend and prepare them for the IB Diploma Programme.

Do all students follow the same programme?

The programme provides a broad study framework by drawing subjects from six topic areas: English, Languages, Science, Humanities, Mathematics and the Creative Arts. Within the programme there is a balanced mix of practical experience and theoretical knowledge. The programme is tailored to the needs of the individual. The majority of students will study 8 I/GCSE subjects but some students may be allowed to take more at the discretion of the Deputy Head of Senior School.

Do all students follow the same subjects at the same level?

Certain subjects at I/GCSE have two levels of entry for the final examinations and these are specified later in this booklet. The Core Level is for all students and the Extended Level for students who show higher academic potential. At Dulwich Puxi, almost all students will be undertaking the Extended Level. This will afford the students the full range of grades A* to G. On some specific occasions, in consultation with the subject teachers, students may be entered for the Core Level. This would be the exception rather than the rule.

How does the IGCSE Programme relate to the IB Diploma Programme?

At Dulwich Puxi, we offer the IB (International Baccalaureate) Programme in Year 12 and 13. The Diploma Programme is a challenging two-year programme of international education for students aged 16 to 19 years. The IB Diploma Programme prepares students for university and encourages them to:

- Ask challenging questions
- Learn how to learn
- Develop a strong sense of their own identity and culture
- Develop the ability to communicate with and understand people from other countries and cultures.

The links between I/GCSE subjects and the IB Diploma Programme are explained briefly within the I/GCSE individual subject course descriptions.

The I/GCSE Programme at Dulwich College Shanghai Puxi

IGCSE Programme Subjects

Compulsory Subjects:

English

Students will be assigned to one of three pathways based on their prior learning. These are: English First Language & English Literature; English Language Only or English as a Second Language.

Science

All students will undertake the Dual Award in Science.

Mathematics

Students will be assigned to one of two pathways based on their prior learning. These pathways are the Double Award programme (IGCSE Mathematics in Year 10 and IGCSE Additional Mathematics in Year 11); and the Standard programme (IGCSE Mathematics over two years).



Optional Subjects

Languages	Humanities	Arts & Electives
Choose 1	Choose 1	Choose any 2 from this column
First Language Chinese Second Language Chinese Foreign Language Mandarin Foreign Language Spanish	Geography History Business Studies	Fine Art Drama Music Second Language Chinese Foreign Language Mandarin Foreign Language Spanish Business Studies Computer Science Geography History Physical Education

For Group 6 (Arts & Electives) students will choose any two subjects from the column.

Wellbeing, Physical Education and the Cross Curricular Programme are compulsory for all students.

IMPORTANT: Some courses may not be offered due to insufficient student enrolment. In addition, it is not always possible to accommodate all course selections due to scheduling conflicts. Every effort will be made to accommodate student preferences but on occasions it may be necessary for students to modify their option choices. This is very much the exception rather than the rule.

IGCSE/GCSE

Subject Information



Group 1: First Language English

Entry Guidance:

First Language English speakers and Second Language speakers who are highly proficient in English must select this course.

Course Aims:

This course aims to enable candidates to:

- Communicate accurately, appropriately and effectively in speech and writing
- Understand and respond appropriately to what they hear, read and experience
- Enjoy and appreciate a variety of language
- Develop skills of a more general application (e.g. analysis, synthesis, drawing of inferences)
- Promote their own personal development and an understanding of themselves and others.

Course Content:

Reading

Candidates will read a range of texts and learn how to analyse and evaluate the material. They will be required to select evidence in support of their answers and to compare texts on a similar topic.

Writing

Candidates will learn to write in a range of styles, presenting facts, opinions and arguments as well as articulating more descriptive or personal experiences. In particular, they will learn to use the appropriate language for a given task.

Speaking & Listening

Throughout the course candidates will be expected to develop their ability to communicate verbally as an individual and as a member of a small group, assuming specific roles and responsibilities within class discussion and debate.

Course Assessment:

External Assessment 100%

The final assessment will take the form of two external examinations.

Paper 2 will primarily focus on reading skills and will be based on two passages linked by a common theme. The paper will test the candidate's ability to respond to one of the passages and their ability to summarise the key points in both passages.

Paper 3 will primarily focus on writing skills and will present the candidate with two tasks; the first being to write a speech, letter or report, whilst the second will allow them the opportunity to write their own composition, be it a narrative, argument or description.

What does the subject lead to in the IBDP Programme?

The course leads effectively into both Language A: Literature and Language A: Language and Literature at both Higher Level and Standard Level.

For further advice:

Contact the Senior School Teacher of English: scott.mclaughlin@dulwich-shanghaiminhang.cn

Group 1: English Literature

Entry Guidance:

First Language English speakers and Second Language speakers who are highly proficient in English should select this course.

Course Aims:

This course will enable candidates to:

- Explore a range of literary texts to identify the skills and methods authors use to construct meaning
- Appraise literary texts from a number of perspectives, not merely to discern literal meaning but to appreciate the issues and attitudes that inform them
- Recognise and appreciate the means by which writers use language to create narrative and descriptive effect as well as that of characterisation, form and structure
- Write about texts and communicate an informed and personal response to what they have read.

Course Content:

Candidates will study a range of prescribed texts written in both English, or translated into English predetermined by the University of Cambridge International Examinations and selected by teachers. Students will also practice responding to unseen poetry and prose in preparation for the Component 2 examination. These may include texts selected from the following examples, as well as texts from elsewhere:

Prose

'The Elephant Vanishes' – by Haruki Murakami (Japan)
'Selected Short Stories' – by Shen Congwen (China)
'Metamorphosis' – by Franz Kafka (Czech)
'Nervous Conditions' – by Tsitsi Dangarembga (Zimbabwe)

Poetry

'Songs of Ourselves': The University of Cambridge International Examinations Anthology of Poetry in English. (Various)

Drama

'A Dolls House' – Henrik Ibsen (Norway)
'Twelfth Night' – William Shakespeare (England)
'Antigone and Creon' – Sophocles (Ancient Greece)

Course Assessment:

External Assessment

Component 1 – 25% – One written examination that will consist of a variety of passage-based, and essay questions on the prescribed poetry and prose texts.

Component 2 – 25% – An analytical response to previously unseen poetry or prose.

Component 3 – 50% – A coursework portfolio containing three assignments based on the three literary genres of poetry, prose and drama. One task will be a critical study, one a piece of empathetic writing and one an oral conversation about the development of a theme or character in a text.

What does the subject lead to in the IBDP Programme?

The course leads effectively into both English A: Literature and English A: Language and Literature at both Higher Level and Standard Level.

For further advice:

Contact the Senior School Teacher of English: scott.mclaughin@dulwich-shanghaiminhang.cn



Group 1: English as a Second Language (ESL)

Entry Guidance:

The IGCSE English as a Second Language course is designed for learners who already have a working knowledge of the language and who want to consolidate their understanding in order to progress in their education or career. Through their studies, learners will improve their ability to understand and use English in a range of situations. The aim is to achieve a level of practical communication ideal for everyday use, which can also form the basis for further, more in-depth, language study.

Course Aims:

This course will enable candidates to:

- Develop their ability to use English effectively for the purpose of practical communication
- Develop a sound base for the skills required for further study of and in English
- Develop an awareness of the nature of language and language-learning skills.

Course Content:

Candidates will further develop their reading, writing, listening and speaking skills through the study of a variety of topics relating to the interests and needs of the candidates. In particular, topics will focus on the world of education, work, travel, health and current affairs.

The course will focus on:

- Selecting and organising material relevant to specific purposes
- Distinguishing between facts, ideas and opinions
- Inferring information from texts
- Conventions of textual cohesion, including paragraphing, reference and linking devices
- Grammatical and syntactical structures, including punctuation
- Register
- Pronunciation and stress patterns.

Course Assessment:

External Assessment 100%

The final assessment will take the form of two external examinations.

Paper 2: 70% Reading and Writing (Extended)

Paper 4: 15% Listening (Extended)

Oral Component: 15%

Oral tests are conducted internally during a period before the main examination session, and then sent to the examining board for external moderation.

What does the subject lead to in the IBDP Programme?

The course leads effectively into Language B English: Higher Level and Standard Level.

For further advice:

Contact the IB Coordinator: marina.prozesky@dulwich-shanghaiminhang.cn

Group 2: First Language Chinese

Entry Guidance:

First Language Mandarin speakers who are proficient in Mandarin may select this course.

Course Aims:

This course enables candidates to:

- Communicate accurately, appropriately and effectively in writing
- Read a wide range of texts, fluently and with good understanding, enjoying and appreciating a variety of language
- Read critically and use knowledge gained from wide reading to inform and improve their own writing
- Write accurately and effectively using appropriate standard language
- Work with information and ideas in Chinese by developing skills of critical evaluation, analysis, synthesis and inference
- Acquire and apply a wide vocabulary, alongside a knowledge and understanding of grammatical terminology and linguistic conventions
- Deepen understanding and appreciation of Chinese culture and classical texts

Course Content:

The course focuses on the study of literary works. Students will study and examine interpretations and experiences of the world through literature. Students will use some of these passages to inform and inspire their own writing and write in a range of text types for different audiences. Students will have the opportunity to read Classical Chinese prose texts to help to deepen their knowledge of Chinese culture. We encourage students to become appreciative and critical readers and writers of Chinese.

Course Assessment:

External Assessment 100%

The final assessment will take the form of two external examinations.

Reading 50%

Writing 50%

What does the subject lead to in the IBDP Programme?

The course leads effectively into Chinese A: Literature (Higher Level and Standard Level), Chinese A: Language and Literature (Higher Level and Standard Level), Chinese B: (Higher Level)

For further advice:

Contact the Head of Mandarin: amber.zhou@dulwich-shanghaiminhang.cn

Group 2 and Group 6: Chinese as a Second Language

Entry Guidance:

Second Language Mandarin speakers who have reached a level of fluency in Mandarin may select this course.

Course Aims:

This course enables candidates to:

- Develop the ability to use Chinese effectively for the purpose of practical communication
- Form a sound foundation for the skills required for further study or employment using Chinese as the medium
- Develop an awareness of the natural of language and language-learning skills
- Promote learners' personal development

Course Content:

Candidates will further develop their reading, writing, listening and speaking skills through the study of a variety of topics relating to the interests and needs of the candidates. In particular, topics will focus on young people and education, society, the world and cultural diversity.

Course Assessment:

External Assessment 80%

Paper 1 Reading and Writing 60%

Paper 2 Listening 20%

Internal Assessment 20%

Component 3 Speaking

What does the subject lead to in the IBDP Programme?

The course leads effectively into Chinese B: Higher level (HL) and Standard level (SL)

For further advice:

Contact the Head of Mandarin: amber.zhou@dulwich-shanghaiminhang.cn



Group 2 and Group 6: Mandarin as a Foreign Language

Entry Guidance:

The Foreign Language Mandarin course is recommended for speakers who have studied the language for a minimum of two years. While this course is not intended for beginners, an adapted beginner's course will be provided if required.

Course Aims:

This course enables candidates to:

- Develop the ability to communicate effectively using the target language
- Offer insights into the culture and society of countries where the language is spoken
- Develop awareness of the nature of language and language learning
- Encourage positive attitudes towards speakers of other languages and a sympathetic approach to other cultures and civilizations
- Provide enjoyment and intellectual stimulation
- Develop transferable skills (e.g. analysis, memorising, drawing of inferences) to complement other areas of the curriculum
- Form a sound base of the skills, language and attitudes required for progression to work or further study, either in the target language or another subject area.

Course Content:

The subject content is organised around five broad Topic areas which provide contexts for the acquisition of vocabulary and the study of grammar and structures. Through the study of these Topic areas, candidates gain insight into target language countries and communities. The Topic areas are:

- Everyday activities: Home life and school; Food, health and fitness
- Personal and social life: Self, family and personal relationships; Holidays
- The world around us: Home town and local area; Natural and made environment; People, places and customs
- The world of work: Continuing education; Careers and employment
- The international world: Tourism at home and abroad; Life in other countries

Course Assessment:

External Assessment 100%

The final assessment will take the form of four external examinations.

Listening	25%
Reading	25%
Speaking (Internally assessed/externally moderated)	25%
Writing	25%

What does the subject lead to in the IBDP Programme?

The course leads effectively into Language B Mandarin: Higher Level and Standard Level. For those following an adapted beginners' course Mandarin Ab Initio may be a more suitable option.

For further advice:

Contact the Head of Mandarin: amber.zhou@dulwich-shanghaiminhang.cn

Group 2: Spanish as a Foreign Language

Entry Guidance:

For students who have studied Spanish as a foreign language, typically for two years or more. This course is not for beginners or for those who are native Spanish speakers.

Course Aims:

This course enables candidates to:

- Develop the ability to use the language effectively for purposes of practical communication in all Spanish-speaking countries
- Form a sound base of the skills required for further study, work and leisure through the use of an additional language
- Discover insights into life and culture in Spanish-speaking countries.

Course Content:

Candidates will further develop their reading, writing, listening and speaking skills through the study of the following topics:

- Everyday activities: home and school life; food, health and fitness
- Personal and social life: Self, family and personal relationships; Holidays and special occasions
- The world around us: Home town and local area; Natural and urban environment; People, places and customs
- The world of work: Education; Careers and employment; Language and communication at work
- The international world: Tourism; Life in other countries; World events and issues.

Course Assessment:

External Assessment 100%

Listening	25%
Reading	25%
Speaking (carried out in school but marked externally)	25%
Writing	25%

What does the subject lead to in the IBDP Programme?

The course leads effectively into Language B Spanish: Higher Level and Standard Level.

For further advice:

Contact the Senior School teacher of Modern Foreign Languages:
kayleigh.eskander@dulwich-shanghaiminhang.cn

Group 3 and Group 6: Geography

Entry Guidance:

Candidates do not need any prior knowledge or experience for this course.

Course Aims:

To provide students with a broad curriculum and lifelong skills, including an understanding of the physical and human environments in which they live through contemporary local, regional and global examples. This allows students an insight into different physical processes and systems, how communities around the world interact with, and are affected and constrained by, different environments.

Course Content:

The course has three main themes that encapsulate both physical and human Geography as well as human interactions with the environment. Each theme contains individual topics, such as the examples below:

- Theme 1: Population and Settlement
- Theme 2: The Natural Environment (tectonic hazards, river and coastal opportunities and hazards and natural environments)
- Theme 3: Economic Development (development, food production, industry, tourism, energy, water and environmental risks).

The course includes a local fieldtrip in Year 10 and the data collected on this trip forms the foundation for the coursework internal assessment. The fieldtrip is compulsory for all students following this course.

Course Assessment:

External Assessment 72.5%

The final assessment will take the form of two external examinations and one piece of coursework that is internally assessed.

Paper 1: Geographical Themes - a mixture of data response and extended response questions	45%
Paper 2: Geographical Skills - interpreting and analysing geographical information and decision-making	27.5%

Internal Assessment 27.5%

Paper 3: Coursework - internal assessment completed in Year 10	27.5%
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What does the subject lead to in the IBDP Programme?

The course leads effectively into Geography: Higher Level and Standard Level.

For further advice:

Contact the Senior School Geography teacher: eamonn.king@dulwich-shanghaiminhang.cn

Group 3 and Group 6: History

Entry Guidance:

Candidates do not need any specific prior knowledge but should have studied some form of history prior to selecting this course.

Course Aims:

Students will gain a knowledge and an understanding of the key features and characteristics of historical periods; develop skills to analyse and evaluate historical interpretations in the context of historical events studied; develop skills to explain, analyse and make judgements about historical events and periods studied, using second-order historical concepts.

Course Content:

This course focuses on 20th Century World History. Paper One includes: two Depth Studies where students study the roots and developments of dictatorship in Germany, and the divisions in American society focusing closely civil rights. Paper two includes: an historical investigation into life in the USA between 1918-1941, and the key events in Chinese history in the 20th century looking at the themes of conflict, crisis and change.

Course Assessment:

External Assessment 100%

Paper 1: Depth Studies	50%
<ul style="list-style-type: none">• Germany: development of dictatorship, 1918–45• A divided union: civil rights in the USA, 1945–74	
Paper 2: Investigation and Breadth Studies	50%
<ul style="list-style-type: none">• Historical Investigation: The USA, 1918–41• Breadth Study: Changes in Medicine, c1848–c1948	

What does the subject lead to in the IBDP Programme?

The course leads effectively into History: Higher Level and Standard Level at IB.

For further advice:

Contact the Senior School of History: kelly.king@dulwich-shanghaiminhang.cn

Group 3 and Group 6: Business Studies

Entry Guidance:

Candidates do not need any specific prior knowledge should have achieved an equivalent level of general education.

Course Aims:

This course aims to enable candidates to: Make effective use of relevant terminology, concepts and methods, and recognise the strengths and limitations of the ideas used in business; Apply your knowledge and critical understanding to current issues and problems in a wide range of business contexts; Distinguish between facts and opinions, and evaluate qualitative and quantitative data in order to help build arguments and make informed judgements; Appreciate the perspectives of a range of stakeholders in relation to the business environment, individuals, society, government and enterprise; Develop knowledge and understanding of how the main types of businesses are organised, financed and operated, and how their relations with other organisations, consumers, employees, owners and society are regulated

Course Content:

The following topics are studied:

- Understanding business activity
- People in business
- Marketing
- Operations management
- Financial information and decisions
- External influences on business activity

Course Assessment:

100 % Externally assessed

Paper 1 – Written examination consisting of four questions requiring a mixture of short answers and structured data response [80 marks]: 1 hour 30 minutes

Paper 2 - Written examination consisting of four questions based on a case study, provided as an Insert with the paper [80 marks]: 1 hour 30 minutes

What does the subject lead to in the IBDP Programme?

Business Studies provides a foundation for the study of Business and management or Economics.

For further advice:

Contact the Senior School teacher of Business Studies.

Group 4: Biology

Entry Guidance:

Students who demonstrate the appropriate aptitude and willingness will be offered this option.

Course Aims:

The course enables students to:

- Learn the patterns, themes and concepts across Biology
- Develop the practical skills to investigate concepts and how to plan effective investigations
- Analyse, interpret and evaluate data and experimental methods, drawing accurate conclusions where appropriate
- Present information logically and accurately. Understand how to use key Scientific conventions and organise knowledge in broader underlying principles
- Make links between seemingly abstract theory and the concrete real world examples, underlined by such theories. In doing so students will appreciate the role of Biology in not only their everyday lives but also developing and furthering society
- Enjoy studying the natural world and the theories and laws that underpin it

Course Content:

This course incorporates the Biology components on the double award. Topics are covered in detail and the following standalone topics are also taught: **Flowering plants, The Kidney, DNA structure, Cloning**. In addition, students will learn about the Scientific method, data analysis and associated mathematical tools.

Course Assessment:

External Assessment 100%

Students will sit two exams for this course:

- Paper 1: 110 marks, 2 hours, 61.1% of the grade
- Paper 2: 70 marks, 75 minutes, 38.9% of the grade

What does the subject lead to in the IBDP Programme?

The course leads effectively into Biology and Environmental Systems and Societies. These courses can be studied at both higher and standard level.

For further advice:

Contact the Senior School Science teacher: rohan.amin@dulwich-shanghaiminhang.cn

Group 4: Chemistry

Entry Guidance:

Students who demonstrate the appropriate aptitude and willingness will be offered this option.

Course Aims:

The course enables students to:

- Learn the patterns, themes and concepts across Chemistry
- Acquire knowledge and understanding of chemical facts, terminology, concepts, principles and practical techniques
- Apply these concepts and techniques to a range of contexts to appreciate the application of Chemistry
- Analyse, interpret and evaluate data and experimental methods, drawing accurate conclusions where appropriate
- Present information logically and accurately. Understand how to use key Scientific conventions and organise knowledge in broader underlying principles
- Make links between seemingly abstract theory and the concrete real world examples, underlined by such theories. In doing so students will appreciate the role of Chemistry in not only their everyday lives, but also developing and furthering society
- Enjoy studying the natural world and the theories and laws that underpin it

Course Content:

This course incorporates the Chemistry components on the double award. Some topics are covered in more detail and the following standalone topics are also taught: **Metallic bonding, Electrolysis, Electronegativity, Extraction and uses of metals, Titrations, Chemical energetics, Chemical equilibria, Alcohols, Carboxylic acids, Esters.** In addition, students will learn about the Scientific method, data analysis and associated mathematical tools.

Course Assessment:

External Assessment 100%

Students will sit two exams for this course:

- Paper 1: 110 marks, 2 hours, 61.1% of the grade
- Paper 2: 70 marks, 75 minutes, 38.9% of the grade

What does the subject lead to in the IBDP Programme?

The course leads to Chemistry. This can be studied at both higher and standard level.

For further advice:

Contact the Senior School Science teacher: rohan.amin@dulwich-shanghaiminhang.cn

Group 4: Physics

Entry Guidance:

Students who demonstrate the appropriate aptitude and willingness will be offered this option.

Course Aims:

The course enables students to:

- Learn the patterns, themes and concepts across Physics
- Acquire knowledge and understanding of facts, terminology, concepts, principles and practical techniques
- Apply these concepts and techniques to a range of contexts to appreciate the application of Physics
- Analyse, interpret and evaluate data and experimental methods, drawing quantitative conclusions from the generated data
- Present information logically and accurately. Understand how to use key Scientific conventions and organise knowledge in broader underlying principles
- Make links between seemingly abstract theory and the concrete real world examples, underlined by such theories. In doing so students will appreciate the role of Physics in not only their everyday lives but also developing and furthering society
- Develop a logical approach to problem solving in a wider context
- Enjoy studying the physical world and the theories and laws that underpin it

Course Content:

This course incorporates the Physics components on the double award. Some topics are covered in more detail and the following standalone topics are also taught: **Momentum, Electric charge, Sound waves, Energy resources and energy generation, Changes of state, Electromagnetism, Transformers, Cosmology.** In addition, students will learn about the Scientific method, data analysis and associated mathematical tools.

Course Assessment:

External Assessment 100%

Students will sit two exams for this course:

- Paper 1: 110 marks, 2 hours, 61.1% of the grade
- Paper 2: 70 marks, 75 minutes, 38.9% of the grade

What does the subject lead to in the IBDP Programme?

The course leads effectively into Physics. This can be studied at both higher and standard level.

For further advice:

Contact the Senior School Science teacher: rohan.amin@dulwich-shanghaiminhang.cn

Group 5: Mathematics

Entry Guidance:

Candidates will need to have undertaken a Mathematics course in Years 7 to 9.

Course Aims:

This course enables candidates to:

- Continue the development of their mathematical knowledge
- Gain confidence, by developing a feel for numbers, patterns and relationships
- Develop an ability to consider and solve problems and present and interpret results
- Develop skills in communication and reasoning using mathematical concepts
- Create a solid foundation for further study.

Course Content:

The content of the course comprises the following topics:

- Number
- Algebra and graphs
- Geometry
- Mensuration
- Trigonometry
- Vectors and Transformations
- Statistics and probability.

Course Assessment:

External Assessment 100%

The final assessment will take the form of two external examinations.

Paper 1: Short answer questions	35%
Paper 2: Structured questions	65%

Calculators will be allowed in both examinations.

What does the subject lead to in the IBDP Programme?

The Double Award course leads into Mathematics Standard Level or Higher Level. The standard IGCSE Extended course leads into Mathematics Standard Level.

For further advice:

Contact the Senior School Teacher of Mathematics: sameh.eskander@dulwich-shanghaiminhang.cn



Group 6: Fine Art

Entry Guidance:

It is recommended that students who wish to take this course should have completed an Art Course in Years 7 to 9.

Course Aims:

This course enables candidates to:

- Develop the skills to investigate, analyse and experiment within Art and Design.
- Gain technical competence to form, compose and communicate through two, and three-dimensional outcomes.
- Expand their working knowledge of Art materials, as well as developing an innovative and inventive use of these materials and practices, increasing their understanding of past and contemporary Art and Design.
- Acquire a critical awareness of different artistic environments, cultures and traditions.
- Broaden their intuitive and imaginative responses to their own and others work, and learn relevant vocabulary and key terminology.

Course Content:

Students will have the opportunity to produce work in the following disciplines:

- Painting, through the use of a range of tools and media such as; collage, assemblage, non-figurative, non-representational, abstract art, landscape, natural and man-made objects.
- Drawing, through the development of a range of effective skills in mark making, using a range of tools and surfaces in the investigation of non-figurative and abstract work.
- Printmaking, to include: screen printing, mono printing and lino-cut printing.
- Sculpture, investigating fixing and joining processes and modelling techniques in a range of materials to include plaster, textiles, found objects and materials.

Course Assessment:

Internal Assessment 60%

A coursework portfolio will be selected from work produced in Years 10 and 11.

External Assessment 40%

The final assessment will take the form of one external examination.

Preparation period – 8 weeks;

External Examination – 10 hours

What does the subject lead to in the IBDP Programme?

The course leads effectively into Visual Arts: Higher Level and Standard Level.

For further advice:

Contact the Head of Art: charlotte.sneath@dulwich-shanghaiminhang.cn

Group 5 and Group 6: Computer Science

Entry Guidance:

Candidates do not need any prior knowledge or experience for this course.

Course Aims:

Studying Computer Science prepares our students of today for the jobs of tomorrow. This course aims to develop:

- Computational thinking – that is thinking about what can be computed and how, and includes consideration of the data required
- Understanding of the main principles of solving problems by using computers
- Understanding that every computer system is made up of sub-systems, which in turn consist of further sub-systems
- Understanding of the component parts of computer systems and how they interrelate, including software, data, hardware, communications and people
- Skills necessary to apply understanding to solve computer-based problems using a high-level programming language.

Course Content:

Computer Science is a practical subject, with approximately one-third of the course devoted to programming in a high-level procedural language. The course also covers.

Theory of Computer Science

- Data representation: Binary systems, Hexadecimal, Data storage
- Communication and Internet technologies: Data transmission, Security aspects, Internet principles of operation
- Hardware and software: Logic gates, Computer architecture and the fetch-execute cycle, Input devices, Output devices, Memory, storage devices and media, Operating systems, High- and low-level languages and their translators
- Security
- Ethics

Practical problem-solving and programming

- Algorithm design and problem-solving: Problem-solving and design, Pseudocode and flowcharts
- Programming: Programming concepts, Data structures; arrays
- Databases

Course Assessment:

External Assessment 100%

The final assessment will take the form of two external examinations:

Paper 1: Theory 60%

Paper 2: Problem-solving and Programming 40%

What does the subject lead to in the IBDP Programme?

The course leads effectively into Computer Science: Higher Level and Standard Level.

For further advice:

Contact Senior School of Computer Science.



Group 6: Drama

Entry Guidance:

Candidates do not need any prior knowledge or experience for this course.

Course Aims:

This course enables candidates to:

- Develop an understanding of Drama through practical and theoretical study
- Realise the performance possibilities of text and other stimuli
- Use a range of dramatic forms and structures to communicate feelings and ideas to an audience
- Foster the acquisition and development of skills in Drama, both individually and in groups
- Develop an understanding of the processes and the elements involved in creating a performance and to develop evaluative ability across the various stages of performance work.

Course Content:

Within this course, candidates will devise dramatic material and reflect upon its effectiveness. Candidates will explore the performance possibilities of a variety of dramatic texts and other stimuli and will learn about the differing roles of actor, director, stage manager and technician. Performances will be in small groups and solo formats.

Course Assessment:

Internal Assessment 60%

This consists of three pieces of practical coursework: two group pieces and one solo piece devised from a list provided by CIE and assessed at strategic points during the course.

External Assessment 40%

The final assessment will take the form of one external written examination.

The paper will require responses to a text and three stimuli, and provide opportunity for reflection, explanation and evaluation of practical performance work.

What does the subject lead to in the IBDP Programme?

The course leads effectively into Theatre Arts and has strong connections to English A: Literature and English A: Language and Literature, Film, and Visual Art: Higher and Standard Level.

For further advice:

Contact the Senior School teacher of Drama.

Group 6: Music

Entry Guidance:

Candidates wishing to take Music are expected to have had some prior experience in musical performance. It is recommended that they have had at least two years of private tuition on their instrument and that they continue to receive regular private tuition on that instrument during Years 10 and 11. In addition, to support the performance element of the course they should regularly participate in at least one school ensemble.

Course Aims:

This course enables candidates to:

- Acquire and consolidate a range of basic musical skills, knowledge and understanding, through the activities of analysis, performing and composing
- Develop a perceptive, sensitive and critical response to a wide variety of musical genres and styles
- Recognize and understand the music of various non-Western traditions, forming an appreciation of cultural similarities and differences
- Develop a life-long appreciation of music and its collaborative nature
- Perform as a soloist and in a small ensemble
- Compose in a variety of styles.

Course Content:

IGCSE Music is about making and analyzing music. It covers performing, composing and listening in a wide variety of musical styles – popular music, world music, and classical music. There are opportunities to perform live music, compose songs and gain an in-depth appreciation of differing musical cultures.

Students will focus on the study of music through exploring the following topics:

- Western classical and popular music from the Baroque, classical, romantic and modern periods
- World music from India, Africa, Indonesia, China, Latin America, Japan and the Middle East
- Set work (for examination in 2020: Mozart: Piano Concerto No.21, K. 467: Movement 1 or Rossini: William Tell Overture)
- Compositional techniques and devices
- Performance techniques
- Musical language and theory.

Course Assessment:

Internal Assessment 60%

Solo and Ensemble Performance	30%
Composition Music	30%

External Assessment 40%

The final assessment will take the form of one external examination. The written examination will focus on listening and appraising skills.

What does the subject lead to in the IBDP Programme?

The course leads effectively into Music: Higher and Standard Level.

For further advice:

Contact the Director of Creative Arts: jonathan.haslett@dulwich-shanghaiming.cn



Group 6: Physical Education

Entry Guidance:

Candidates should consider the activity choices allowed by the exam board and be competent in at least 4 of the choices. Students should be involved in sport CCAs to support the practical element of the course.

The aims are to enable candidates to:

- Develop their knowledge and understanding of the theory underpinning physical performance in a modern world
- Use and apply this knowledge and understanding to improve their performance
- Perform in a range of physical activities, developing skills and techniques, and selecting and using tactics, strategies and/or compositional ideas
- Understand and appreciate safe practice in physical activity and sport
- Understand and appreciate the benefit of physical activity and sport for health, fitness and well-being
- Gain a sound basis for further study in the field of Physical Education.

Candidates will study all of the following topics:

- 1 **Anatomy and physiology** - Skeletal and muscular system, respiratory system, circulatory system, energy supply and the effects of exercise on the body, biomechanics.
- 2 **Health, fitness and training** – Health, fitness and wellbeing, diet and energy sources, fitness testing, methods and principles of training.
- 3 **Skill acquisition and psychology** – Skill and ability, information processing, stages of learning, feedback and guidance, goal setting, anxiety, motivation, relaxation, personality types
- 4 **Social, cultural and ethical influences** – Leisure and recreation, sport development, sponsorship, media, professional and amateur performance, technology, factors affecting participation, Sport enhancing drugs, risk, sportsmanship and gamesmanship, injuries.

Course Assessment:

50% Theory – 1hour 45 minute exam – 100 marks

50% Practical performance over 4 sporting activities – 25 marks per activity (100 marks in total).

Practical performances will be assessed in 4 activities from at least 2 of the categories outlined here: games, gymnastics, dance, athletics, outdoors and adventurous, swimming, combat activities

For further advice:

Contact Director of Sport, Mr Leaver or Miss Stewart: oliver.leaver@dulwich-shanghaiminhang.cn or grace.stewart@dulwich-shanghaiminhang.cn



DULWICH COLLEGE

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