



مدرسة الإبداع العلمي الدولية
Intl. School of Creative Science

Year 10 and 11 Courses leading to IGCSE Qualifications

The structured route to Pre-University
Courses and Further Education

A Guide for Parents and Students

E ducation for Life

Dear Parents and Carers,

Welcome to our Guide which will explain the curriculum being offered at *The Intl. School of Creative Science* over the next two academic years and beyond, starting from when our students move into Year 10. Our curriculum will pave excellent progression routes to higher study, allowing our students to fulfil their aspirations in an ever changing and demanding society. We aim to provide the right academic environment for young people to make informed decisions regarding their future ambitions. Our challenge is to ensure that we provide all students with a curriculum that will enable them to gain internationally recognised and respected qualifications in a wide range of subjects.

To this end, in Years 10 and 11, *The Intl. School of Creative Science* provides the internationally recognized IGCSE courses provided by The Edexcel Examination Board and The Cambridge International Examining Board (CIE). Both are internationally recognised examination boards.

The International General Certificate of Secondary Education (*IGCSE*) is a two year curriculum programme with internal assessments and examinations in Year 10 and final external examinations in Year 11. The courses, with an awareness of students' needs in the international community, have been developed in line with the National Curriculum of England.

The great strength of our Year 10 and 11 curricula is that it is broad, balanced, differentiated and relevant.

- Broad: a wide range of subjects across all of the academic disciplines is studied
- Balanced: an appropriate amount of time is being given to each subject area
- Differentiated: each student can reach his/her full potential
- Relevant: relates to students having a wide range of educational backgrounds, abilities and aspirations

The two year IGCSE examination programme offers an educational experience second to none and is an ideal preparation for further study either here or at any other school in the world.

Majd C. Hussain
Director of Secondary

The Curriculum

The IGCSE examination allows for a range of achievement from grade A* to grade G. A* is the highest grade and it is generally accepted that grades A* to C are 'good' passes. The IGCSE (International GCSE) has a greater focus upon internationalism. The IGCSE courses have been chosen to provide an interesting and academically demanding curriculum for students from a wide range of academic and cultural backgrounds. They provide an ideal preparation for higher level courses such as the International Baccalaureate, A' Level, SATS, and for vocational training and employment.

Subjects studied

Students are expected to take a minimum of five IGCSE subjects. All students will sit for the UAE Ministry examinations in Islamic Studies and Arabic.

Remember: Universities vary in their entrance requirements. Please check the specific requirements of your intended university.

At ISCS we offer the following subjects in Years 10 and 11:

Edexcel :

Mathematics
English Language
English Literature
ESL English
Biology
Physics
Chemistry
Science Double Award
ICT
Business Studies
Arabic first Language

Cambridge, CIE:

Arabic as a second language
Environmental management

Additional Subjects: These courses may be taken as private study.

- French
- Islamiyat
- Urdu
- Turkish

Mathematics

Subject	IGCSE Mathematics A
Course Code	Edexcel - 4MA0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/maths/mathsA
How will I be assessed?	<p>Two-tier assessment, Higher Tier and Foundation Tier.</p> <p>Targeted Grades: Higher – A*to E Foundation – C to G</p> <p>Higher Tier and Foundation tier both assessed via two papers set and marked by Edexcel.</p> <p>Paper:1 – 2 hours Paper:2 – 2 hours</p>
Objectives (Aims) of the Course	<ul style="list-style-type: none"> • To develop an appreciation of Mathematics in the world around us • To develop in students the ability to use and apply mathematics in the ‘real world’ • To equip students with a solid foundation that will enable them to further their studies in mathematics and in related fields • To instill in students enjoyment of the subject • To enable students to become confident in applying mathematical techniques to solve problems related to science, business, etc
Brief outline of the Course	<p>Knowledge , skills and understanding of:</p> <ul style="list-style-type: none"> • Number • Algebra • Geometry • Statistics • Measures • Probability
Future Careers	Engineering, Teaching, Accountancy, Banking and lots more!

English (First Language)

Subject	IGCSE English Language
Course Code	Edexcel-4EA0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/eng/eng-langa
How will I be assessed?	<p>Paper:1 – 2 hours 15 mins Paper:2 – 1 hour 30 mins</p> <p>Assessment is 100% examination and assesses reading and writing in the internationally recognised forms of Standard English: either British or American standard forms are acceptable in the students' writing. Spelling must be consistent, whether it follows British or American usage.</p> <p>There are two examination papers. Paper 1: The first contains an unprepared non-fiction reading passage focusing on factual comprehension, inference and an understanding of how writers use language, as well as evaluation of how writers use linguistic and structural devices to achieve effects; a seen reading passage testing the student's ability to develop interpretations of the text, supported by reference to the text; and two writing tasks testing the student's ability of writing to inform, explain, describe. Paper 2: The second paper contains a seen reading passage and a writing sections that contains a choice of topics testing writing to explore, imagine, entertain and writing to argue, persuade, advise.</p>
Objectives & brief outline	<p>Students will:</p> <ul style="list-style-type: none"> • develop the ability to read, understand and respond to material from a variety of sources • recognise and appreciate themes and attitudes and the ways in which writers achieve their effect • develop the ability to construct and convey meaning in written language, matching style to audience and purpose.
Future Careers	Law, Media, Linguistics, Translation, Teaching and Business.

English Literature

Subject	IGCSE English Literature
Course Code	Edexcel–4ET0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/eng/eng-lit
How will I be assessed?	Single Tier assessment via 2 compulsory written papers set and marked by Edexcel. Targeted Grades – A* - G Paper 1:–1 hour 30mins- Drama and Prose Paper 2:–45mins –Poetry
Objectives & brief outline	Students will <ul style="list-style-type: none">• Engage with and develop the ability to read, understand and respond to a wide range of literary texts from around the world• Read a novel, play and an anthology of poetry• Through their readings, develop an appreciation of the ways in which authors achieve their literary effects• Develop the skills needed for literary study• Explore, through literature, the cultures of their own and other societies and find enjoyment in reading literature and understand its influence on individuals and societies.
Future Careers	Law, Media, Linguistics, Translation, Teaching and Business.

English as a Second Language (ESL)

Subject	IGCSE English as a Second Language
Course Code	Edexcel – 4ES0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/eng/eng-2nd
How will I be assessed?	<p>Single Tier assessment via 2 compulsory papers set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p>Paper:1 –2 hours – Reading and Writing Paper:2 – 45mins - Listening</p>
Objectives & brief outline	<ul style="list-style-type: none"> • To develop student understanding of a wide variety of complex reading texts, recognizing implicit meaning and adapting their own style and speed of reading to different texts • To enable students to understand standard spoken language, whether live or broadcast, on unfamiliar and familiar topics normally encountered in personal, social, academic or vocational contexts • To enable students to write clear, well-structured text using an appropriate style, highlighting relevant issues, expanding and supporting their points of view where relevant and showing controlled use of organisational patterns, connectors and cohesive devices • To develop students' ability to express themselves fluently, spontaneously and appropriately in a range of speaking contexts with little obvious searching for expressions or use of avoidance strategies • To develop the skills needed for further study or employment either in English-speaking countries or where English is used as the main medium of communication for business and commerce • To develop an understanding of the nature of language in different cultural contexts in order to build up effective communication skills.
Future Careers	Enables students to study in Higher and Further educational institutes where English is used as the main medium of communication.

Science - Biology

Subject	IGCSE Biology
Course Code	Edexcel-4BIO
Link URL	http://www.edexcel.com/quals/igcse/igcse09/biology/biology
How will I be assessed?	<p>Single Tier assessment via 2 compulsory written papers set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p>Paper:1 – 2 hours Paper:2 – 1 hour</p>
Objectives (Aims) of the Course	<ul style="list-style-type: none"> • To give students a knowledge and understanding of biological facts, concepts and principles. • To develop an appreciation of the significance of biological facts, concepts and principles and the skills needed for their use in new and changing situations. • To develop an appreciation of the importance of accurate experimental work in scientific method and reporting. • To enable students to form hypotheses and design experiments to test them. • To sustain and develop an enjoyment of, and interest in, the study of living organisms. • To enable students to evaluate, in terms of their biological knowledge and understanding, the benefits and drawbacks of scientific and technological developments, including those related to social, environmental and economic issues.
Brief outline of the Course	<ul style="list-style-type: none"> • The nature and variety of living organisms. • Structures and functions in living organisms. • Reproduction and inheritance. • Ecology and the environment. • Use of biological resources.
Future Careers	<ul style="list-style-type: none"> • Medicine • Dentistry • Pharmacy • Allied Health • Science Education • Dietician • Research. • Forensic Scientist • Environmental Scientist • Health and safety Adviser • Biotechnology

Science - Chemistry

Subject	IGCSE Chemistry
Course Code	Edexcel-4CH0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/chemistry
How will I be assessed?	<p>Single Tier assessment via 2 compulsory written papers set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p>Paper:1 – 2 hours Paper:2 – 1 hour</p>
Objectives (Aims) of the Course	<ul style="list-style-type: none"> • learn about the unifying patterns and themes of chemistry • appreciate the practical nature of chemistry, acquiring experimental and investigative skills based on correct and safe laboratory techniques • appreciate the importance to scientific methods of accurate experimental work and reporting from hypotheses and design experiments to test them • develop a logical approach to problem solving in a wider context • understand the widespread importance of chemistry and the way materials are used in the world • appreciate how the work of the chemist has social, industrial, technological, environmental and economic consequences for the community • preparation for more advanced courses in chemistry and for courses which require them to have a knowledge of chemistry.
Brief outline of the Course	<ul style="list-style-type: none"> • Principles of chemistry • Chemistry of the elements • Organic chemistry • Physical chemistry • Chemistry in society
Future Careers	<ul style="list-style-type: none"> • Health administrator • Physician (all specialties) • Technical writer/editor • Educator at the elementary, secondary, and college/university levels • Attorney • Sales representative • Research supervisor • Research engineer • Environmental consultant • Art Conservation Specialists

Science - Physics

Subject	IGCSE Physics
Course Code	Edexcel-4PH0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/physics
How will I be assessed?	<p>Single Tier assessment via 2 compulsory written papers set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p>Paper: 1 – 2 hours Paper:2 – 1 hour</p>
Objectives (Aims) of the Course	<ul style="list-style-type: none"> acquire a systematic body of scientific knowledge and the skills needed to apply this in new and changing situations in many domestic, industrial and environmental contexts appreciate the practical nature of physics, acquiring experimental and investigative skills based on correct and safe laboratory techniques appreciate the importance of accurate experimental work and reporting to scientific method form hypotheses and design experiments to test them evaluate, in terms of their scientific knowledge and understanding, the benefits and drawbacks (including social, environmental and economic) of scientific and technological developments select, organise and present information clearly and logically, using appropriate scientific terms and conventions.
Brief outline of the Course	<ul style="list-style-type: none"> Forces and motion Electricity Waves Energy resources and energy transfer Solids, liquids and gases Magnetism and electromagnetism Radioactivity and particles
Future Careers	<ul style="list-style-type: none"> Air Traffic Controller Astronomer Biophysicist Computer System Engineer Engineer High-Tech Designer, Oil Industry Industrial Hygienist Lawyer, Technology Specialty Mathematics and Physics Teacher Meteorologist Nuclear Physicist Nuclear Power Plant Project Manager Science Teacher

Science – Science Double Award

Subject	IGCSE Science Double Award
Course Code	Edexcel–4SC0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/science/Pages/default.aspx
How will I be assessed?	<p>Single Tier assessment via 3 compulsory written papers set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p>Paper:1 – Biology Paper 1– 2 hours Paper:2 – Chemistry Paper 1– 2 hours Paper:3 – Physics Paper 1– 2 hours</p>
Objectives (Aims) of the Course	<ul style="list-style-type: none"> acquire a systematic body of scientific knowledge and facts, and an understanding of scientific concepts, principles, themes and patterns appreciate the practical nature of science, acquiring experimental skills based on correct and safe laboratory techniques appreciate the importance of accurate experimental work to scientific method and reporting form hypotheses and design experiments to test them sustain and develop an enjoyment of, and interest in, the scientific world appreciate the significance of science in wider personal, social, environmental, economic and technological contexts, and consider ethical issues select, organise and present information clearly and logically, using appropriate scientific terms and conventions prepare for more advanced courses in each of the three scientific disciplines which comprise this specification.
Brief outline of the Course	<p>Biology:</p> <p>Section 1: The nature and variety of living organisms</p> <ul style="list-style-type: none"> Section 2: Structures and functions in living organisms Section 3: Reproduction and inheritance Section 4: Ecology and the environment Section 5: Use of biological resources. <p>Chemistry:</p> <ul style="list-style-type: none"> Section 1: Principles of chemistry Section 2: Chemistry of the elements Section 3: Organic chemistry Section 4: Physical chemistry Section 5: Chemistry in society. <p>Physics:</p> <ul style="list-style-type: none"> Section 1: Forces and motion Section 2: Electricity Section 3: Waves Section 4: Energy resources and energy transfer

	<ul style="list-style-type: none"> • Section 5: Solids, liquids and gases • Section 6: Magnetism and electromagnetism • Section 7: Radioactivity and particles
Future Careers	<ul style="list-style-type: none"> • As per the separate sciences

Environmental Management

Subject	IGCSE Environmental Management
Course Code	CIE - 0680
Link URL	http://www.cie.org.uk/qualifications/academic/middlesec/igcse/subject?assdef_id=855
How will I be assessed?	<p>Single Tier assessment via 3 compulsory written papers set and marked by CIE.</p> <p>Targeted Grades – A* - G</p> <p>Paper:1 – 1 hour 30mins Paper:2 – 1 hour 45mins Paper:4 - 1 hour 30mins – Alternative to Coursework paper</p>
Objectives (Aims) of the Course	<p>Students will acquire :</p> <ul style="list-style-type: none"> • knowledge of the functioning of the natural system which makes life possible on Earth; • an understanding that humankind is part of this system and depends on it; • an appreciation of the diverse influences of human activity on the natural system; • an awareness of the need for management and human responsibility to keep the system in a healthy condition if life as we know it is to continue; • an understanding of sustainable development and management to meet the needs of the present without compromising the ability of future generations to meet their own needs; • an understanding of how local environments contribute to the global environment; • a sensitivity to, and a sense of responsibility and concern for, the welfare of the environment and all other life forms which share this planet; • an awareness of their own values concerning environmental issues; • an awareness of the values of others; • a willingness to review their own attitudes in the light of new knowledge and experiences • a sound basis for further study, personal development and participation in local and global environmental concerns.
Brief outline of the Course	<ul style="list-style-type: none"> • Lithosphere • Hydrosphere • Atmosphere • Biosphere

Future Careers	<ul style="list-style-type: none">• Environmental Educators• Environmental Inspectors• Environmental Scientists• Preserve Managers• Water- and Wastewater-Treatment-Plant Operators• Conservation Scientists
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Arabic (First Language)

Subject	IGCSE ArabicFirst Language
Course Code	Edexcel–4AR0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/lang/arabic
How will I be assessed?	<p>Single Tier assessment via 2 compulsory written papers set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p><u>Paper :1</u> – 2 hrs 15 mins 70% of total 70 marks Section:1 – Reading Section:2 – Writing Section:3 – Grammatical Usage</p> <p><u>Paper :2</u> – 1 hr 30 mins 30% of total 60 marks</p> <p>The examination requires students to produce two pieces of continuous writing.</p>
Objectives (Aims) of the Course	<p>To develop in students the ability to understand and respond orally and in writing to material from a variety of sources in Arabic.</p> <ul style="list-style-type: none"> • The ability to read from a variety of texts • To extract, summarise and present appropriately relevant information from a text • To communicate in writing clearly and imaginatively • To show an understanding of grammatical topics
Brief outline of the Course	<ul style="list-style-type: none"> • Reading • Writing • Grammatical Usage
Future Careers	Teaching, Translation, Media

Arabic Second Language

Subject	IGCSE Arabic Second Language
Course Code	CIE - 0544
Link URL	http://www.cie.org.uk/qualifications/academic/middlesec/igcse/subject?assdef_id=834
How will I be assessed?	<p>Two Tier assessment via papers set and marked by CIE.</p> <p>Targeted Grades are: Core curriculum: C – G Extension curriculum: A* - G</p> <p>Paper:2 – 1 hour 30mins Paper:3 –15mins – Speaking Test</p> <p>An additional paper for the Extension Tier: Paper:4 – 1 hour 15mins</p>
Objectives (Aims) of the Course	<ul style="list-style-type: none"> • To develop an ability to use Arabic effectively for purposes of practical communication. • To offer insights into the culture and civilisation of countries where Arabic is spoken • To form a sound basis of skills for further related study • To encourage positive attitudes towards language learning and towards speakers of foreign languages • To provide enjoyment and intellectual stimulation
Brief outline of the Course	<p>The course is based on the linked language skills of listening, reading, speaking and writing, and these are built on as students progress through their studies.</p> <ul style="list-style-type: none"> • Reading • Writing • Listening and speaking
Future Careers	Forms a solid basis of further language acquisition in Arabic.

Information and Communication Technology

Subject	IGCSE ICT
Course Code	Edexcel–4IT0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/ict
How will I be assessed?	<p>Single Tier assessment via 2 compulsory papers set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p>Paper:1 – 1 hour 30mins Paper:2 – 3 hours - Practical</p>
Objectives (Aims) of the Course	<p>The course aims to encourage the exploration and study of ICT in a variety of contexts: home, community, business, industry, recreation and education. In any given situation, students will be given the opportunity to acquire competence, ability and critical skills through the implementation, use and evaluation of a range of ICT systems. Students can develop their interest in, enjoyment of and critical reflections about ICT as an integral part of modern society.</p> <p>The Edexcel IGCSE in ICT enables students to:</p> <ul style="list-style-type: none"> • acquire and apply ICT skills, knowledge and understanding in a range of contexts • develop ICT-based solutions to address challenges and solve problems • develop an understanding of ICT systems • develop an understanding and awareness of current and emerging technologies • develop an awareness of the legal, social, ethical and environmental consequences of the use of ICT systems for individuals, organisations and society • recognise potential risks when using ICT and develop safe, secure and responsible practice.
Brief outline of the Course	<ul style="list-style-type: none"> • ICT Systems • Impact of ICT • Use ICT Systems • Find and Select Information • Develop, Present and Communicate Information
Future Careers	<p>Engineering, Teaching, Banking, Business, Web Designer, Web Development, Programming, Information System Analyst, Graphic Designer, Publishing, Network Technicians, Network Manager, Network Administrator, Telecommunications Engineer, Electrical Engineer and lots more</p>

Business Studies

Subject	IGCSE Business Studies
Course Code	Edexcel-4BS0
Link URL	http://www.edexcel.com/quals/igcse/igcse09/bus-Stud
How will I be assessed?	<p>Single Tier assessment via 1 compulsory written paper set and marked by Edexcel.</p> <p>Targeted Grades – A* - G</p> <p>Paper:1 – 2 hours</p>
Objectives (Aims) of the Course	<p>By taking this course you will gain skills which are relevant to a wide range of subject and careers, including:</p> <ol style="list-style-type: none"> 1. The ability to research, analyse, and present information. 2. The ability to take a critical view of current issues in the world of business. 3. The ability to present arguments using your own judgment, both in written work and in class discussions. 4. The ability to understand the dynamics of business activity. 5. To examine the objectives of businesses and criteria for judging success 6. To develop attitudes and skills relevant to Business Studies, such as investigation, problem solving, communication and ICT.
Brief outline of the Course	<p>Knowledge and understanding of:</p> <p>Business Activity and the Changing Environment - Introduces the nature and types of business within an economy and examines the interaction between businesses and their environment.</p> <p>Human Resources (HR) - Looks at people in organisations, focusing on their roles, relationships and management in business.</p> <p>Accounting and Finance - Explores the use of accounting and financial information as an aid to</p>

	<p>decision making.</p> <p>Marketing - Focuses on identifying and satisfying customer needs in a changing and competitive international environment.</p> <p>Production - Examines the way organisations use and manage resources to produce goods and services.</p>
<p>Future Careers</p>	<p>Taken from: www.edexcel.com</p> <p>Taking this course may lead to careers in the following areas:</p> <ul style="list-style-type: none"> · Accounting · Administration · Consultation · Human Resources · Marketing · Finance · Retail Management · Sales · Public sector jobs · Self-Employment

