



HAMILTON
International School



International
Schools
Partnership



High School Programme of Study

**Academic Year
2025/2026**

| Table of Contents | | |
|-------------------|---|------|
| | | Page |
| 1 | Vision, Mission & Core Values | 3 |
| 2 | Welcome Letter | 4 |
| 3 | High School Overview | 5 |
| 4 | General Information | 5 |
| 5 | High School Diploma | 7 |
| 6 | IB Diploma | 10 |
| 7 | Course Offerings <ul style="list-style-type: none"> – English Department 12 – Mathematics Department 15 – Science Department 17 – Social Studies Department 19 – Technology Department 22 – Arts Department 25 <ul style="list-style-type: none"> - Theatre - Music - Visual Art – World Languages Department 27 – Physical Educational Department 31 | |

Vision

Igniting
passi♥n, purp@se
and p○tential

Mission

Our mission is to develop caring, lifelong learners and global citizens in a culture of excellence through an international, well-balanced education.

Core Values

- I am getting better
- I am respectful
- I am resilient
- I am a global citizen
- I am a communicator
- I am emotionally intelligent
- I am a collaborator

Definition of High Quality Learning

High Quality Learning at Hamilton is the purposeful, personalized process we undertake to help us get better to succeed in school and beyond as a lifelong learner.

Learning is Getting Better

Dear Parents,

I hope that you find The Hamilton International School's High School Programme of Study informative. This document aims to give you and your child an overview of the High School options, the credit system, Hamilton's graduation requirements, and grade level requirements. Within the Programme of Study, you will also find course descriptions for all of the courses we offer from grade 9 to 12.

You will see the vast array of courses on offer here at Hamilton which allow our students to follow their passions and realise their potential in subjects that they are genuinely excited about as they experience amazing learning. Please be mindful of the graduation requirements, course prerequisites and course length as you explore the courses on offer.

Some students at this stage in their school life may have a clear idea of where they want their future to be. As students select courses, they are encouraged to consider their future aspirations, investigate potential university courses and the requirements they have, and gain input from parents and staff. On the contrary, some students may not yet have decided on their future career or study pathway, and others may change their mind along the way. It is therefore important for all students to select a diverse range of subjects and to choose subjects where they have a genuine interest.

I hope that this Programme of Study answers many of the questions that you may have around the High School Diploma and the IB Diploma Programme. However, if you have additional questions or need any further guidance, then please contact your child's homeroom teacher or Mr Crean, Assistant Head of Secondary.

Kind regards,



Mrs Rebecca Gough
Head of Secondary

High School Overview

At The Hamilton International School (THIS) a comprehensive High School offering is available to all students. In Grade 9-12 we are committed to getting students ready for the future by equipping them with the knowledge and qualifications needed to be admitted into further education.

High School Diploma (HSD)

The High School Diploma is a 4-year course and is taken in Grades 9 – 12. Students gain a minimum of 24 credits over the 4 years of study and achieve a Grade Point Average (GPA), based on the grades that they gain in each course. All students will take this course

International Baccalaureate (IB) Diploma

The IB Diploma is a two-year course and is completed in Grades 11 and 12. Students have the option of taking the IB Diploma if they meet specific entry requirements. The IB Diploma is made up of 6 subject courses, 3 of which are taken at Standard Level (SL) and 3 taken at Higher Level (HL), along with the IB Core which consists of Extended Essay (EE), Theory of Knowledge (TOK) and Creativity, Activity, Service (CAS). Students who take the IB DP will also achieve the HSD.

General information

Grade Level Placement for New Admissions

The following number of credits along with MoEHE guidelines on age and years of education will be used to determine a student's grade placement. When grade level placement is being determined students must also be able to meet Hamilton's Graduation requirements. Exemptions to this may be granted at the discretion of the High School Academic Committee.

| | |
|----------|--|
| Grade 9 | 1-5 Credits |
| Grade 10 | 5.5-11 Credits |
| Grade 11 | 11.5-17.5 Credits |
| Grade 12 | 18+ Credits or Year 1 of IBDP Completed* |

Students who transfer to Hamilton during the school year will be placed in classes that most closely match the courses they were attending in their previous school.

*Students who transfer to THIS in the middle of the IBDP from another school must have subjects that match our offering to continue the IB Diploma Programme.

Promotion to the next Grade

Students will progress to the next grade level if they have acquired the minimum credits outlined below and meet Hamilton's Graduation requirements.

| | |
|----------|-------------------|
| Grade 9 | 1-5 Credits |
| Grade 10 | 5.5-11 Credits |
| Grade 11 | 11.5-17.5 Credits |
| Grade 12 | 18+ Credits |

A student who does not meet these credit requirements will remain in the same grade placement until the necessary credits are earned to advance to the next grade at the beginning of the next academic year.

Course Changes

We aim for all students to make informed decisions regarding course selection, thus reducing the need for course changes. If a student wishes to change a course, this must be done in the first 2 weeks of the course*. To change courses students must follow the guidelines outlined below:

1. Student obtains a change of course form from the Assistant Head of Secondary or IB Coordinator.
2. Student explains reason for the withdrawal from course.
3. Student explains why they have the desire to take the new course.
4. Assistant Head of Secondary or IB Coordinator documents his/her thoughts concerning the course change and contacts the parents and teachers involved to assess the change of course.
5. A final decision will be made by the High School Academic Committee, taking all recommendations into account.

Course Offerings

Hamilton intends to run all courses that are offered in the Program of Study during the four-year course, however the Secondary School Leadership team reserves the right to close courses in the event of unforeseen circumstances or low enrolment requests, and to add courses if circumstances allow.

Course registration

Course registration for the following year takes place in Semester 2 of the current academic year. Acceptance in principle onto a course, is based on current attainment in the prerequisite subjects, however final course registration is dependent upon meeting the course prerequisites on the End of Year Report.

Prerequisites

Prerequisites are in place to ensure that students have the knowledge, understanding and skills to allow them to progress onto the course. These prerequisites must be met to be granted a place on the course the following year.

High School Diploma

The High School Diploma (HSD) runs for a duration of 4 years (Grade 9 – 12) and entails students completing courses that earn them credits. Each credit earned will have a grade associated with it that is used for a Grade Point Average (GPA), the indicator of academic achievement.

Credits

Credits are the units by which academic progress is measured. 24 credits are required for graduation from The Hamilton International School. Students typically earn 7 to 7.5 credits per year, however this is dependent on the course selection, mandatory directives from the MoEHE (relating to Arabic and Islamic Studies) and High School Academic Committee advice.

A student will gain one credit (1.0) after successfully completing a course for a full year (a full course equates to 4 lessons per week for one year). A student will gain one-half credit (0.5) after successfully completing a course equating to 4 lessons per week for one semester or 2 lessons per week for one year. Some courses run for a duration of two years and earn students two credits (2.0) upon completion or one credit (1.0) if they successfully pass the first year of the course.

Transfer Credits: A student joining Hamilton in Grades 10, 11 or the start of 12 will be able to transfer credits earned at their previous school(s) provided the school report is stamped and represents the preceding grades before Hamilton or equivalent if joining from a different curriculum. The grade will be listed as “T” on the transcript and only the credit allocation will count. A student’s GPA is only calculated on courses completed at The Hamilton International School.

Credit Recovery

Students who do not earn a credit for a course due to incomplete work or a failure, may be given the opportunity to recover the credit. Students may be able to recover the credit by:

- Enrolling in the course the following year (if available). Both grades will appear on the transcript, but only the higher grade will count towards the Grade Point Average.
- Sitting a credit recovery assessment at the discretion of the school and the course grade will be capped a D-.

Only 1 credit recovery will be permitted per academic year.

Graduation requirements/recommendations

Students must earn a minimum of 24 credits in Grades 9 – 12 to qualify for a Hamilton High School Diploma. These credits must be earned across all school departments with the minimum requirements from each area of study outlined in the table below.

Any exemptions to these requirements must be petitioned to the High School Academic Committee. Students must attend Hamilton for two consecutive semesters (one full academic year) immediately prior to receiving a Hamilton diploma.

| Required courses | Minimum requirements | Recommended for college |
|-----------------------|----------------------|-------------------------|
| English | 4.0 | 4.0 |
| Mathematics | 3.0 | 4.0 |
| Science | 3.0 | 4.0 |
| Social Studies | 3.0 | 3.0 – 4.0 |
| World Languages* | 2* | 3.0 – 4.0 |
| Physical Education | 1.0 | |
| Electives | 8.0 | |
| Minimum Total Credits | 24 | |

This is a minimum expectation, additional courses may be studied.

***World Languages:**

- All students holding passports from Arabic speaking countries must enrol in Arabic A in Grades 9, 10, 11, and 12.
- Students enrolled in intensive EAL/SEN support may be exempt from World Languages credit requirements for graduation at the discretion of the school.
- Students who transfer from another school to Hamilton and have no previous experience in a language course offered may be exempt from World Languages credit requirements for graduation at the discretion of the school.

Muslim students must enrol in Islamic Studies A (Arab Muslims) or Islamic B in Grades 9, 10, 11, and 12 in line with the MOEHE guidelines.

Assessment

Assessments form a crucial part of all High School courses. Students will be assessed using a combination of ongoing summative assessments which include tests, projects, presentations, assignments and exams.

Missed Assessments: We understand that unforeseen circumstances may arise, leading to missed ongoing assessments. In such cases, students and parents are encouraged to communicate promptly with the school with the reason for the absence. It will be at the discretion of the school to decide if there will be an opportunity to do the assessment on return to school.

In the case of missed summative assessments:

- any unauthorised absences will result in a Fail grade being awarded.
- a resit opportunity or a predicted grade will be awarded in the case of an authorised absence.

GPA Calculation

A students' GPA is calculated on 0-4 scale and represents a measure of a student's academic performance. It is reported for each academic year. The cumulative GPA then combines these values for graduation at the end of Grade 12. Each course grade value is weighted by the amount of credits earned on completion of the course. The values assigned to individual grades are listed in the table below:

| | | | | | | | | | | | | |
|-----------|----------|------------|------------|----------|------------|------------|----------|------------|------------|----------|------------|----------|
| A+ | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | D- | F |
| 4 | 4 | 3.7 | 3.3 | 3 | 2.7 | 2.3 | 2 | 1.7 | 1.3 | 1 | 0.7 | 0 |

* Students studying a course marked as Higher Level (HL) will receive a 0.5 GPA increase on completion of the course.

* Students studying a content marked as Standard Level (SL) will receive a 0.25 GPA increase on completion of the course.

Modified High School Diploma (HSD)

Our Modified High School Diploma (HSD) program offers a tailored educational experience to meet the diverse needs of our students. In addition to traditional High School Diploma courses, we provide modified courses that have been adapted either in instruction, assessment, or both, to accommodate individual learning styles and abilities. These modified courses are denoted by an asterisk on the student's report card and transcript, providing recognition of the unique pathway taken by these students.

In the Modified HSD program, students have the opportunity to earn credits not only through standard coursework but also by participating in additional courses designed to promote functional skills. These courses aim to equip students with practical knowledge and abilities that are essential for success in various aspects of life beyond the classroom. By offering a blend of traditional and modified courses, we ensure that all students have the opportunity to achieve academic success and acquire valuable skills for their future endeavors.

While the GPA calculation remains consistent across the program, the Modified HSD acknowledges the diverse strengths and challenges of each student, fostering an inclusive learning environment where every individual can thrive. Our commitment to personalized education ensures that students receive the support and resources they need to reach their full potential and pursue their goals with confidence.

IB Diploma

International Baccalaureate

The International Baccalaureate Diploma Programme (IB DP) is a two-year qualification and is recognized worldwide as a rigorous pre-university course.

Full IB Diploma Programme

In Grade 11, students may choose to take the full IB Diploma which consists of taking six IB DP courses (three at Standard Level (SL) and three at Higher Level (HL) and the IB Core programme.

All IB subjects are a two-year commitment, and all students in IB courses are expected to sit the external examination at the end of Grade 12. Students who complete IBDP Grade 11 are expected to remain in the course for Grade 12 and sit the exam.

The decision of whether to pursue the full IB DP is one that should be discussed with the IB Coordinator, homeroom teacher, counsellor, and parents. Entry requirements are in place for all courses.

IB Subject Groups

IB DP students must study a total of 6 subjects as outlined below:

- one from each of the Groups 1 – 5
- one from Group 6 or a second subject from Group 4

The subject groups for IB DP are as follows:

| | |
|----------------|---|
| Group 1 | Studies in Language and Literature |
| | English Language and Literature (SL/HL) Arabic Language and Literature (SL) |
| Group 2 | Language Acquisition |
| | French Language (SL/HL) Spanish Language (SL/HL) Arabic Language (SL) *AB course offered on Pamoja (SL) |
| Group 3 | Individuals and Societies |
| | Business Management (SL/HL) History (SL/HL) Geography (SL/HL) |
| Group 4 | Sciences |
| | Biology (SL/HL) Chemistry (SL/HL) Physics (SL/HL) Computer Science (SL/HL) Design Technology (SL/HL) Environmental Systems and Societies (ESS) <i>*interdisciplinary course, can be taken as Group 3 or Group 4*</i> (SL/HL) |
| Group 5 | Mathematics |
| | Mathematics: Analysis and Approaches (AA) (SL/HL) Mathematics: Applications and Interpretation (AI) (SL/HL) |

| | |
|----------------|---|
| Group 6 | The Arts |
| | Visual Arts (SL/HL) Alternatively, instead of a Group 6 subject, students can choose an additional subject from Groups 1–4 (e.g., another science, humanities, or language course) |

The courses within each group can be explored in the course offerings section from page 12.

IB Core Programme

Students on the full IB DP pathway, must meet requirements in the IB Core Programme which consists of three additional areas. Each of these areas is outlined below:

- Theory of Knowledge
- Extended Essay
- Creativity, Activity & Service

Theory of Knowledge

Theory of knowledge (TOK) plays a special role in the IB DP by providing an opportunity for students to reflect on the nature of knowledge. It is one of the components of the DP core and is mandatory for IB DP students only. TOK has dedicated lessons timetabled each week and is assessed through an exhibition and a 1,600-word essay.

For more information, please see our [TOK handbook](#). If you have any further questions, please contact our TOK Coordinator Chris Allen (callen@this.qa).

Creativity Activity Service

Creativity, Activity & Service (CAS) is another of the three essential elements that students enrolled in the IB DP must complete. Studied over two years, CAS involves students getting involved in a range of activities alongside their academic studies and serves as an opportunity for holistic student development. It is not formally assessed; however students reflect on their CAS experiences as part of the IB DP and provide evidence of achieving the seven learning outcomes for CAS.

For more information see our [CAS Handbook](#). If you have any further questions, please contact our CAS Coordinator Megan Forbes (mforbes@this.qa).

Extended Essay

The Extended Essay (EE) is an independent, self-directed piece of research completed by all students completing the IB DP Programme. Students are all assigned an extended essay mentor to help guide them through this significant piece of work which has a word count guideline of 4,000 words.

For more information see our [EE Handbook](#). If you have any further questions, please contact our EE Coordinator Tariro Matibiri (tmatibiri@this.qa).

IB Exam Candidates

Full IB DP students will pay an exam fee per subject. This fee is due during the first quarter of the second year of the course and cost is set by IBO. Registration on the IB DP Programme is an indication that the student will sit the final exam in the course.

Any questions about IB please do not hesitate to contact our IB Coordinator, Mr. C. Allen callen@this.qa

Course Offerings

English Language Arts Department

English is among the most interdisciplinary departments at The Hamilton International School (THIS) and plays an important role both as an individual subject, and through cross-curricular support. A wide variety of skills are covered with the aim of enhancing students' language proficiency, reading comprehension, critical thinking, and communication skills. English language arts courses are designed to provide students with the necessary tools to read, analyse and interpret a variety of text types including novels, poems, plays, political cartoons, advertisements, and speeches. Over the course of four years students are expected to engage in critical thinking and analysis, evaluate information from a variety of sources, and use evidence to support their ideas. Students also develop their reading skills by learning to decode texts and examine the subtleties to articulately structure their interpretations and analysis. Additionally, students craft their own creative and analytical pieces, developing skills in storytelling, persuasive writing, journalism, and other forms of written expression. Through this process, they refine their ability to use language purposefully, experiment with style and structure, and communicate ideas with clarity and impact.

English I

Length & Credit: 1 year / 1.0 credit

Grade: 9

Prerequisite: Grade 8 English

In this course, students develop their textual analysis and writing skills by engaging with both literary and non-literary texts. They study classic and engaging works of literature such as *And Then There Were None* and *The Monkey's Paw*, analysing characters, themes, symbolism, and narrative techniques. Students also examine how global issues are represented across various media, including speeches, advertisements, political cartoons, and articles, analysing and evaluating how textual features and stylistic elements shape meaning and influence the audience. The course emphasises close reading, structured writing, and effective argumentation. Through discussions, oral presentations, and formal writing assignments, students build confidence in their ability to analyse complex texts and express their ideas clearly and thoughtfully.

English II

Length & Credit: 1 year / 1.0 credit

Grade: 10

Prerequisite: English I

English II encourages students to think critically about literature and language while refining their reading, writing, and communication skills through the study of diverse texts. Students study 20th-century and contemporary poetry, examining how poets use language, form, and structure to convey meaning. Through the study of murder mystery short stories, students analyse narrative techniques, character development, and the elements of suspense. They also explore writers' viewpoints and perspectives, developing their ability to express opinions, attitudes, and beliefs through argumentative and personal writing. To enhance their speaking and listening skills, students deliver speeches, participate in debates, and perform open mic presentations, building confidence in their ability to articulate ideas persuasively and engage with different perspectives.

English Language and Literature (SL/HL)**Length & Credit: 2 year / 2.0 credit****Grade: 11 & 12****Prerequisite:** English II preferred

This dynamic two-year course enables students to explore the power of language across both literary and non-literary texts. They critically engage with a range of text types, examining how language both shapes and reflects identity, culture, and context. Through close analysis and secondary readings, students investigate how meaning is constructed and communicated across different textual forms. A selection of literary works forms the foundation for textual analysis. Standard Level (SL) texts include *1984* by George Orwell, *A Doll's House* by Henrik Ibsen, *The Plague* by Albert Camus, and *Hamlet* by William Shakespeare. Higher Level (HL) students also study *Residence on Earth* by Pablo Neruda and *Antigone* by Sophocles. Beyond literature, students analyse a variety of non-literary texts—including advertisements, speeches, opinion pieces, blogs, and visual media—applying approaches from literary theory, sociolinguistics, media studies, and critical discourse analysis. The course fosters critical thinking and effective communication, equipping students to navigate and interpret the complexities of language in the modern world. Through discussion, inquiry-based learning, and analytical writing, they refine their ability to deconstruct texts and articulate sophisticated arguments.

English Language (SL)**Length & Credit: 2 year / 2.0 credit****Grade: 11 & 12****Prerequisite:** None

This two-year language acquisition course develops students' proficiency in reading, writing, listening, and speaking through a communicative and inquiry-based approach, while also exploring how language shapes identity, culture, and global perspectives, providing them with the necessary skills and intercultural understanding to enable them to successfully communicate in English. The course is centred around five prescribed themes—Identities, Experiences, Human Ingenuity, Social Organisation, and Sharing the Planet—which provide a foundation for meaningful discussions and real-world language use. Students engage with authentic texts, such as articles, interviews, advertisements, literary extracts, and visual media, analysing how language functions across different contexts. At Standard Level (SL), students refine accuracy and fluency in written and spoken communication, while Higher Level (HL) students further explore literary works and deepen analytical skills. Assessment includes receptive and productive language tasks, interactive oral activities, and an internal assessment focused on global issues. By the end of the course, students will have the confidence to use English effectively in academic, professional, and social settings, preparing them for further study and international communication.

English III**Length & Credit: 1 year / 1.0 credit****Grade: 11****Prerequisite:** English II

English III develops students' skills in interpreting and analysing complex literary and non-literary texts to explore how language and literature influence perspectives and reflect societal values. The course challenges students to think critically about the power of language and rhetoric and its role in persuasion. Through the study of iconic historical speeches, students analyse how rhetoric is used to inspire, manipulate audiences, and consolidate power. They also study drama, such as Shakespeare's *Macbeth* and Sophocles' *Antigone*, to examine universal themes and global issues. Additionally, students explore poetry by Mahmoud Darwish, considering how figurative language conveys themes of resistance and cultural identity. By engaging in insightful discussions, literary and rhetorical analysis, and writing, students develop their ability to interpret complex texts, construct well-supported arguments, and refine their

communication skills. This course equips students with the critical thinking and analytical skills needed to navigate, interpret, and respond thoughtfully to the language and literature that shape the world around them.

Research Skills and Extended Writing

Length & Credit: 1 year/0.5 credit

Grade: 9

Prerequisite: None

Students develop essential research and referencing skills that will serve them well in academic and professional settings. They learn to conduct thorough research using both physical and digital resources, critically assessing the credibility of their sources. Students also explore different research methods, understanding how to approach and apply them effectively. Through guided practice, they refine their referencing techniques and apply their skills to extended writing pieces on self-selected topics, fostering independence and intellectual curiosity.

Speech

Length & Credit: 1 year/0.5 credit

Grade: 9

Prerequisite: None

In this course, students explore the art of rhetoric by analysing, interpreting, and evaluating famous speeches throughout history. They examine a range of speech styles and purposes, considering how tone, structure, and delivery contribute to their effectiveness. By studying the impact of speeches on society—whether inspiring movements, fueling political change, or advancing social justice—students gain insight into the power of spoken language. With a strong focus on how speech shapes public opinion, students analyse rhetorical strategies, speaker intent, and audience reception. Additionally, they develop essential public speaking skills, equipping them with the confidence and expertise to communicate effectively in any profession or walk of life.

Journalism

Length & Credit: 1 Semester or 1 Year / 0.5 credit

Grade: 10 & 11

Prerequisite: English I

Journalism provides students with hands-on experience in news writing, reporting, and media production. Students learn the fundamentals of journalistic structure, including how to craft compelling leads, organize information effectively, and develop clear, engaging news stories. Throughout the course, they create newspapers, broadcasts, and digital articles, as well as explore modern media formats such as podcasts and multimedia storytelling. Emphasis is placed on concise, accurate, and impactful reporting, with opportunities to investigate current events and conduct interviews. Through collaboration and real-world applications, students develop critical thinking, media literacy, and professional communication skills.

Creative Writing

Length & Credit: 1 Semester or 1 Year / 0.5 credit

Grade: 11

Prerequisite: English I

The Creative Writing course invites students to explore and develop their unique voices through imaginative expression. Students experiment with various forms of creative writing, including poetry, short fiction, and children's books. Students hone their ability to craft vivid imagery, compelling characters, and engaging narratives. The course emphasizes storytelling techniques for narrative writing, as well as literary devices and sensory language to enhance style, originality, and emotional impact. Through workshops, peer reviews, and close reading of professional works, students refine their craft and develop confidence as writers.

* Modified courses are available in English I, English II & English II

Mathematics Department

Through mathematics, students are encouraged to explore, understand and develop their numerical thinking which will help them interpret the world around them. At THIS, we take an integrated approach to learning mathematics as this allows students to connect the strands together during their learning journey. Our international curriculum aligns the US Common Core Standards which facilitates a diverse and broad curriculum delivery. We aim to develop a learner's ability to problem solve, analyse and reason within mathematical contexts and real-life situations. Our goal is to create a mathematical environment that promotes a sense of enjoyment, curiosity and confidence in this subject.

Calculator Policy

A key component of the mathematics curriculum is the development of skills, competency, and efficiency in technology aided problem solving. A calculator from the TI-84 family is recommended for all math courses at Hamilton.

Maths I

Length & Credit: 1 year / 1.0 credit

Grade: 9

Prerequisite: Grade 8 Maths

This course builds on foundational concepts from Middle School mathematics, emphasising the interconnected nature of mathematical topics. Students will strengthen their algebraic skills, particularly in equation solving and graphical representation. Geometry is a key focus, introducing trigonometric concepts and deepening students' understanding of coordinate geometry. The course also covers key aspects of functions, data analysis, and transformations, ensuring students develop problem-solving abilities and mathematical fluency.

Maths II

Length & Credit: 1 year / 1.0 credit

Grade: 10

Prerequisite: Maths I

This course builds on prior mathematical knowledge, reinforcing and extending students' skills in algebra, geometry, and analytical reasoning. Students will engage with mathematical proofs and theorems, refining their ability to construct logical arguments and solve problems with greater depth. Algebraic techniques will be developed further, with an emphasis on their practical applications. The study of probability, vectors, and matrices introduces new mathematical tools to approach increasingly sophisticated challenges. Geometrical constructions will require precision and appropriate equipment, such as a standard geometry set.

Maths III

Length & Credit: 1 year / 1.0 credit

Grade: 11

Prerequisite: Maths II

This course explores polynomial, rational, logarithmic, and trigonometric functions through multiple representations, including algebraic, graphical, numerical, and verbal descriptions. Students will manipulate expressions to reveal key properties and deepen their understanding of mathematical structures. The study of sequences and series will highlight connections between arithmetic, geometric, linear, and exponential relationships. Additionally, students will analyse normally distributed data and engage with complex numbers in both algebraic and geometric contexts. This is the third of three required mathematics courses for college and career readiness. Students who complete this course will be considered as college and career ready.

Maths Analysis and Approaches (SL/HL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11**Prerequisite:** Maths II

The analysis and approaches course recognises the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach. Students are encouraged to apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. Mathematics: analysis and approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments.

Mathematics Application and Interpretations (SL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11**Prerequisite:** Maths II

The applications and interpretation course recognises the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. Students are encouraged to solve real-world problems, construct and communicate this mathematically and interpret the conclusions or generalizations.

Calculus**Length & Credit:** 1 year / 1.0 credit**Grade:** 12**Prerequisite:** B- or above in Maths III

Calculus encompasses the study of limits, derivatives, and integrals, with a focus on their applications in real-world scenarios. Students learn to evaluate limits, calculate derivatives using various rules, and integrate functions using techniques such as substitution and integration by parts. Emphasis is placed on problem-solving skills, as students apply calculus concepts to analyse functions, find critical points, determine areas and volumes, and solve optimization and related rate problems.

Statistics**Length & Credit:** 1 year / 1.0 credit**Grade:** 12**Prerequisite:** Maths III

Statistics covers fundamental statistical concepts and methods, focusing on data analysis, probability, and inference. Students learn to describe and summarize data using measures of center, spread, and shape, and explore relationships between variables through correlation and regression analysis. They also study probability distributions, including binomial, geometric, and normal distributions, and apply probability rules to solve problems. Inference plays a significant role, with students learning hypothesis testing, confidence intervals, and techniques for comparing means and proportions. Throughout the course, emphasis is placed on interpreting results and making informed decisions based on statistical analysis.

* Modified courses are available in Integrated Maths I, Integrated Maths II & Integrated Maths III

Science Department

Science is based on the Next Generation Science Standards (NGSS). At THIS, students are required to gain an understanding and appreciation of the interrelationships of science through first studying the integrated courses in the opening years of the diploma. The objective of these courses is to explore the world as a scientist to ignite their passion for the different strands of sciences. Students learn content by applying scientific concepts and practices to promote critical thinking, laboratory work, and inquiry-based tasks. This provides students with a strong foundation in all science disciplines and will inform their selection of either Biology, Physics or Chemistry as they move into the later years of the High School Diploma.

Integrated Science I

Length & Credit: 1 year / 1.0 credit

Grade: 9

Prerequisite: Grade 8 Science

Grade 9 Integrated Sciences serves as a dynamic introduction to the realms of biology, chemistry, and physics, providing students with a holistic understanding of the natural world. Through engaging explorations into cell biology, organization, atomic structure, bonding, energy, and electricity, students will develop essential scientific skills while uncovering the fundamental principles that govern the universe. Hands-on experiments, collaborative projects, and interactive discussions will ignite curiosity and foster a deep appreciation for the interconnectedness of the sciences. By cultivating critical thinking, inquiry, and problem-solving skills, this course sets the stage for continued exploration and discovery in high school science education.

Integrated Science II

Length & Credit: 1 year / 1.0 credit

Grade: 10

Prerequisite: Integrated science I

Integrated Science II allows students delve deeper into the three areas of Science they studied previously; biology, chemistry, and physics. They explore topics ranging from internal balance and genetic inheritance in biology to hydrocarbons in crude oil in chemistry, and the principles of forces and waves in physics. Throughout these explorations, students develop critical skills in scientific inquiry, data analysis, and problem-solving, deepening their understanding of the interconnectedness of scientific phenomena in the natural world.

Environmental systems and societies (SL/HL)

Length & Credit: 2 year / 2.0 credits

Grade: 11 & 12

Prerequisite: Integrated science II

The IB Environmental Systems and Societies (ESS) course provides students with an interdisciplinary understanding of the interactions between humans and the natural environment. Through an inquiry-based approach, students explore topics such as ecosystems, biodiversity, water and atmospheric systems, climate change, sustainability, and environmental ethics. The course integrates scientific knowledge with socio-political and economic perspectives, encouraging students to critically evaluate environmental issues and propose sustainable solutions. Practical fieldwork, case studies, and the Internal Assessment (IA) allow students to apply their understanding to real-world challenges, preparing them for further studies in environmental science, policy, and sustainable development.

Biology (SL/HL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11 & 12**Prerequisite:** Integrated Science II

IB Biology explores the diversity and complexity of living organisms through a rigorous, inquiry-based curriculum. Students engage with topics including cell biology, genetics, evolution, ecology, and human physiology, with HL students covering additional topics such as nucleic acids, metabolism, and neurobiology. The course emphasizes scientific investigation, data analysis, and experimental design through laboratory work and the Internal Assessment (IA). Students will also evaluate the ethical implications of biological advancements and explore the application of biology in medicine, biotechnology, and environmental conservation. The course equips students with the skills necessary for higher education in the biological and health sciences.

Chemistry (SL/HL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11 & 12**Prerequisite:** Integrated science II and Maths II

IB Chemistry provides students with a fundamental understanding of chemical principles and their applications in various scientific and industrial fields. Core topics include atomic structure, bonding, stoichiometry, energetics, kinetics, and equilibrium, while HL students explore additional topics such as spectroscopy, thermodynamics, and further organic chemistry. Through hands-on laboratory work, data analysis, and the Internal Assessment (IA), students develop practical and analytical skills essential for scientific research. The course encourages students to apply their knowledge to real-world problems, such as environmental sustainability, pharmaceuticals, and materials science, preparing them for further studies in chemistry, medicine, and engineering.

Physics (SL/HL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11 & 12**Prerequisite:** Integrated science II and Maths II.

IB Physics explores the fundamental laws governing the universe, developing students' understanding of topics such as mechanics, thermodynamics, waves, electricity, magnetism, and nuclear physics. HL students delve deeper into advanced topics, including quantum physics and relativity. The course emphasizes mathematical modeling, problem-solving, and experimental design, with students conducting investigations as part of their Internal Assessment (IA). Through theoretical exploration and hands-on experimentation, students apply physics concepts to real-world phenomena, such as renewable energy, space exploration, and medical imaging, preparing them for careers in engineering, technology, and scientific research.

* Modified courses are available in Integrated Science I, Integrated Science II & Grade 11 Science courses.

Social Studies Department

Social Studies is an essential aspect for a young person in pursuing their potential and as they develop into active global citizens. The High School Diploma subjects extends students' knowledge and understanding of key elements of Geography and History before exploring wider, related topics, in which students develop their critical inquiry skills.

Qatar History is compulsory for all students in Grade 9 in line with MOEHE regulations. This course does not count towards credit allocation.

World History

Length & Credit: 1 year / 1.0 credit

Grade: 9

Prerequisite: Grade 8 Social Studies

In this course, students will have the opportunity to study significant eras in world history in a chronological order. Each unit will develop historical skills such as source analysis and interpretation, as well as honing all round skills of analysis and evaluation. The course will cover significant civilisations, developments, and eras from prehistory through to the renaissance. Students with an inquisitive mind will learn how our history might impact our modern world.

Modern History

Length & Credit: 1 year / 1.0 credit

Grade: 10

Prerequisite: World History preferred

This course picks up where the World History course ended, at the birth of the modern age with the advancements and discoveries of the scientific and industrial revolutions. It will then trace a chronological course through the key events and their impact over the subsequent centuries up to the 20th century. Although a firm knowledge of world history is preferable, it is not essential as the analytical nature of the sources will be different.

History (SL/HL)

Length & Credit: 2 year / 2.0 credit

Grade: 11 & 12

Prerequisite: Achieved a C or above in a Social Studies subject

Students will study the building blocks of our modern world through major 20th century changes. The course starts with an exploration of the First World War and the cause and effects of the Second World War. During the course we take an in-depth study of the rise, consolidation of power and fall of three authoritarian state leaders. Students will develop their Historian skills by completing an internal assessment and a historical investigation report.

Physical Geography

Length & Credit: 1 year / 1.0 credit

Grade: 9

Prerequisite: Grade 8 Social Studies

This course aims are to enable students to have an understanding of the ways in which people interact with their environment and have an awareness of the contrasting opportunities and constraints presented by different environments, gain an appreciation of and concern for the environment and the earth including landscapes, natural processes and phenomena. Students will study weather and climate; coasts; rivers; glaciers; and natural hazards. At least one of these units will also include a focus on the human interactions.

Human Geography**Length & Credit:** 1 year / 1.0 credit**Grade:** 10**Prerequisite:** Physical Geography preferred

This course aims are to enable students to understand location on a local, regional and global scale. Students gain an understanding of the ways in which people interact with each other and with their environment while having an awareness of the contrasting opportunities and constraints presented by different environments. There is an opportunity to gain an appreciation of and concern for the environment and the earth including its people and places. During the course students will look at a range of topics including population; migration; settlements, development, food production, tourism, resources, and the environmental risks of economic development.

Geography (SL/HL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11 & 12**Prerequisite:** Achieved a C or above in a Social Studies subject

The geography course integrates both physical and human geography and ensures that students acquire elements of both scientific and socio-economic methodologies. This helps students develop an appreciation of, and a respect for, alternative approaches, viewpoints and ideas. The geography course examines key global issues with a focus on future resilience and adaptability to geophysical hazards, the future of extreme environments, and building sustainable urban environments for the future. It considers examples and detailed case studies at a variety of scales, from local to regional, national and international, with a portion of the course encompassing a fieldwork write up based on the urban heat island effect.

Business Studies I**Length & Credit:** 1 year / 1.0 credit**Grade:** 9**Prerequisite:** Grade 8 Social Studies

Students will explore some of the basic building blocks of business including the purpose of business, the forms that businesses can take and entrepreneurship. Areas of study include the expansion of e-commerce and technology, environmental and ethical considerations, and economic and legal factors. Students will examine factors to do with the production of goods and the provision of services. The concepts of quality and customer service will be considered for their impact on businesses. Students will explore the purpose of human resources, its role within business and how it influences business activity. Topics for study include how businesses organise and structure their employees, methods to recruit the best employees and to keep them trained and motivated.

Business Studies II**Length & Credit:** 1 year / 1.0 credit**Grade:** 10**Prerequisite:** 1 Social Studies Credit

Students will examine factors to do with the production of goods and the provision of services. The concepts of quality and customer service will be considered for their impact on businesses. Students will consider the purpose of marketing and its role within business. Marketing strategies will be studied with respect to market research and the 4Ps of marketing and how it influences business activity. Students will explore the finance function of businesses. Students will need to consider the suitability of a range of funding sources, recognise how cash flow can affect a business's

operations and have some knowledge of business accounts, so that they are able to make sense of simplified financial documents and scenarios.

Business Management (SL/HL)

Length & Credit: 2 year / 2.0 credit

Grade: 11 & 12

Prerequisite: 2 Social Studies Credits

Specifically designed for international students, this advanced level course will help to transform learners into active thinkers; drawing from sustainable and ethical case studies to build awareness of real-world business contexts, with an emphasis on conceptual understanding. Inquiry-led learning will enable students to think critically and creatively about business on a local, national, and global scale. The functions and operations of businesses will be examined, including resourcing and financing, in addition to the expansion of globalization and innovation as growth strategies. Students will be assessed using various methods, including extended essay and research project formats. This course is an ideal platform to progress onto a higher education course in business management, finance, or marketing.

Economics

Length & Credit: 1 year / 0.5 credit

Grade: 12

Prerequisite: Previously Studied Business

Students will gain a comprehensive introduction to both microeconomics and macroeconomics, exploring how individuals, businesses and governments make decisions in an ever-changing world. Key topics include market mechanisms, the role of government in the economy, international trade and the impact of economic policies. Through studying real-world economic issues and developing analytical skills, students gain a deeper understanding of how economies function, while also building the critical thinking and problem-solving abilities needed to succeed in various fields. This course offers a solid foundation for further study in economics and related subjects.

* Modified courses are available in Grade 9, 10 & 11 Social Studies courses.

Technology Department

The subjects within the Technology Department at THIS allow students to discover their creative side within a collaborative and student-centered learning environment. Students communicate their designs and projects by way of digital and practical means using advanced software, drawing skills, computing processes and materials such as wood products, metals and plastics. Students become resilient, resourceful, innovative and acquire a broad range of subject knowledge related to tools, machines, components, raw materials, processes, hardware and software.

Resistant Materials I

Length & Credit: 1 year / 0.5 credit

Grade: 9

Prerequisite: Grade 8 Design & Technology

Throughout the course, students engage in collaborative teamwork, receiving design briefs and collectively brainstorming solutions. They utilize woods, metals, and plastics to create projects, emphasizing practical skills like shaping and joining. Students integrate modern technologies such as computer aided design (CAD) software and computer aided manufacturing (CAM). They also gain proficiency in utilizing 3D printers, laser cutters, and 3D scanners. In the Manufacturing Project unit, students delve into resistant materials' manufacturing processes, working collaboratively to execute their designs while compiling a comprehensive report to document their journey and project outcomes.

Resistant Materials II

Length & Credit: 1 year / 1.0 credit

Grade: 10

Prerequisite: Resistant Materials I preferred

In Resistant Materials II, students will document their project progress and outcomes using an e-portfolio, showcasing their work in a digital format. Through the integration of e-portfolios and advanced project management techniques, students will make high quality batch projects and gain invaluable skills applicable to various professional settings. Students are encouraged to record and track all work in the design process which facilitates reflection and continuous improvement. Furthermore, they will develop project plans, timelines, and cutting lists, ensuring efficient execution of their designs. By improving their project management skills, students will learn to anticipate challenges and incorporate tools and strategies to achieve successful outcomes.

Graphic Products

Length & Credit: 1 year / 0.5 credit

Grade: 9

Prerequisite: Grade 8 Design & Technology

Graphic Products is a comprehensive course that equips students with a range of technical and design skills. From customer profiling to pop-up mechanisms and product packaging, students gain practical experience in real-world applications. In our CAD/CAM and Technical Graphics unit, students immerse themselves in computer-aided design and manufacturing with intricate 3D modelling, including a technical graphics challenge of drawing their newly printed 3D object, emphasising precision and accuracy in engineering drawings. Finishing with the visual impact unit, students will hone in on their learnt visual communication skills and design a compelling and informative poster specific to a secondary school department. They undergo professional printing and are prominently displayed for the benefit of all present and future secondary students, serving as informative guides on the chosen resource or process.

Digital Media Production**Length & Credit:** 1 year / 0.5 credit**Grade:** 10**Prerequisite:** Graphic Products / Resistant Materials I / Resistant Materials II / Teacher Approval

Within our Digital Media Production program, students will develop proficiency in digital design and multimedia production. They will gain new fundamental knowledge and skills by studying theory and processes related to digital design, digital prototyping and 3D Modelling. Building upon this foundation, the course progresses to a deeper dive into the art of video editing and composition including masking, transitions and audio editing. They will advance through a meticulously structured curriculum integrating software, hardware, and specialised techniques to produce their projects. Their digital work will be complemented by a hands-on exploration of chroma key (green screen) technology for visual effects. Through these activities, students will gain the skills they need for future jobs and careers in graphic design and digital media.

Design Technology (SL/HL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11 & 12**Prerequisite:** 1.0 Credit in Technology

Design and Technology explores design principles, innovation, and technology applications, encompassing topics such as classic design, modelling techniques, human factors and ergonomics, user-centered design, and sustainability. Students engage in problem-solving, creativity, and critical thinking, utilizing digital tools to design solutions for real-world challenges. Assessment methods include projects, presentations, portfolios, reflections, and examinations, fostering a deep understanding of design principles and technological applications. By course completion, students are equipped for further study or careers in engineering, product design, architecture, and sustainable development, drawing upon internationally recognized principles and methodologies in technology education.

Product Design & Innovation**Length & Credit:** 1 year / 0.5 credit**Grade:** 12**Prerequisite:** Resistant Materials I or II / Graphic Products / Digital Media Production / Teacher Approval

Product Design & Innovation offers students an immersive journey into the topics of innovation management, project management, product design and prototyping as well as entrepreneurship with a blend of design, technology, and electronics. Students engage in advanced design thinking methodologies, exploring complex challenges through a user-centred perspective. They gain valuable experience through use of advanced machines including 3D scanners and printers. Additionally, basic Lean Six Sigma principles are integrated, fostering a culture of efficiency and excellence in product development and innovation. This comprehensive course challenges students to push the boundaries of their creativity and problem-solving abilities, equipping them with the skills and mindset necessary for success in design, engineering, and entrepreneurship fields.

Computer Science I**Length & Credit:** 1 year / 0.5 credit**Grade:** 9**Prerequisite:** Grade 8 ICT or teacher approval

Computer Science I aims to provide students with a foundational understanding of computer science principles, programming languages, algorithms, and problem-solving skills. Here's an overview of what this program entails. An introductory course in web development which covers HTML, CSS, and JavaScript. Students learn how to create static and interactive web pages, as well as gain an understanding of web design principles and best practices. Database techniques are introduced where students learn about database management systems (DBMS) and SQL (Structured Query Language). They also learn the theory of Computer Science such as Cybersecurity, Artificial Intelligence and digital currency.

Computer Science II**Length & Credit:** 1 year / 0.5 credit**Grade:** 10**Prerequisite:** Computer Science I or teacher approval

In Computer Science II, students will continue to explore the fundamental principles and concepts in Computer Science. They will continue their journey and learn how to diagnose and solve problems. Furthermore, they will explore the principles related to the analysis and creation of computer and information systems; software development; the connectivity between computers; the management of data; the development of database systems; and the moral and ethical considerations for the development and use of computer systems. Students will improve their algorithm design skills by completing mini projects by using various programming languages such as Python, Java, HTML and SQL throughout the academic year.

Computer Science (SL/HL)**Length & Credit:** 2 year / 2.0 credit**Grade:** 11 & 12**Prerequisite:** Previous Computer Science Experience Preferred

This course is driven by conceptual thinking and enables and empowers innovation, exploration and the acquisition of further knowledge such as Artificial Intelligence and Digital Currency. Students study how Computer Science interacts with and influences cultures and the ethical issues involved. Four sub options are available in this course; databases, modelling and simulation, web science, object-oriented programming. Students are required to identify a problem, design, prototype and test a proposed solution. Students are also shown how to liaise with prospective clients to evaluate the success of the proposed solution and make recommendations for future developments.

The Arts Department

Students will be given a creative outlet to explore and experiment with differing subjects, genres and skills through music, dance, drama and art. The skills developed within these subjects are transferable; group work, time management, meeting deadlines, resilience; confidence amongst others. The program aims to develop students holistically and show students how to be expressive through The Arts.

Theatre Studies I - IV

Length & Credit: 1 Year / 0.5 credit

Grade: 9 – 10 – 11 - 12

Prerequisite: None

Theatre Studies courses allow students to develop their movement and voice as the tools of a performer. Each course will develop students' confidence within themselves. Students will collaborate with others to develop performance pieces as well as develop their analytical skills through responding to their own and others' work. Students undertaking Theatre Studies are encouraged to participate in the school production to get the best experience of theatre in action.

High School Music I - IV

Length & Credit: 1 year / 0.5 credit

Grade: 9 - 12

Prerequisites: Prior instrumental experience preferred

Each year of high school, students will have the chance to choose between studying Music as an individual or an ensemble. Each course is designed to develop musicianship through focused instrument practice and ensemble performances. Students will learn to optimize their practice routines and refine key performance elements such as stage presence, setlist creation, and writing program notes. The primary instruments offered include drums, bass, guitar, keyboard, and vocals, with the possibility of additional instruments at the teacher's discretion. Assessments will be conducted through performance assessments, in-class rehearsal participation, and live concert evaluations, providing students with well-rounded feedback to support their growth as musicians.

Art I

Length & Credit: 1 year / 0.5 credit

Grade: 9

Prerequisite: None

Art I is a foundational course that introduces students to the basic ideas, techniques, and concepts of visual arts. Throughout this course, students will experiment with a variety of art mediums such as drawing, painting and mixed media, all while honing their creative talents and expression. Throughout the course, students will study the work of a variety of artists, both historical and contemporary, gaining insight into distinct artistic styles, movements, and social settings. They will also learn how to examine and understand artwork, as well as improve their critical thinking and visual literacy.

Art II

Length & Credit: 1 year / 0.5 credit

Grade: 10

Prerequisite: None

Art II is a dynamic course that builds on the fundamental abilities learned in Art I and throughout middle school. This course allows students to broaden their creative perspectives, improve their technical skills, and investigate more advanced themes and techniques across several artistic mediums. The course encourages students to incorporate

personal ideas, thoughts, and styles into their artwork by interpreting and evaluating the work of other artists. Students will be encouraged to participate in critical discussions and critiques of their own and their peers' work, which will help them better comprehend art theory and aesthetics.

Visual Arts (SL/HL)

Length & Credit: 2 Year / 2.0 credit

Grade: 11 & 12

Prerequisite: Prior Art experience in Grade 9/10

The Visual Arts course aims to enable students to explore and develop their creativity, artistic talents, and critical thinking abilities in a global context. The course is structured around four major components. Comparative Study: Students evaluate and compare artworks from various cultural contexts, looking for connections, similarities, and contrasts. Process Portfolio: Students document their artistic process, which includes idea development, method experimentation, and thoughts on their journey. Exhibition: Students curate and display a selection of their own artworks in a public exhibition. Visual Arts Journal: Students keep a diary to record their thoughts, inspirations, and reactions to artworks, as well as to experiment with different art-making processes.

Music (SL)

Length & Credit: 2 year / 2.0 credit

Grade: 11

Prerequisites: Prior music experience required

Music is an inquiry-based course that explores a wide range of musical styles, traditions, and practices from around the world. Students develop skills in analysis, performance, and composition while engaging critically with music in different cultural and historical contexts. Assessment is internal and consists of a written portfolio analyzing selected works, original music created through experimentation, and a presentation of performed and/or composed pieces with commentary. This course studies more music theory than High School Music mentioned above and requires previous music experience as a result.

World Languages Department

The World Languages classroom at Hamilton International School is a place where students realize their potential as communicators, discover and develop their passion for languages and learn about other cultures. We encourage our students to collaborate through verbal, written or visual forms of communication. Hamilton high school students will develop a passion and appreciation for language through the four language skills; reading, writing, speaking and listening.

French I

Length & Credit: 1 years / 1.0 credit

Grade: 9

Prerequisite: Middle School French experience preferred

This course is for high school students who studied the language for one year in middle school or have had limited exposure to French in previous years. The course is built around units that allow students to use language structures to communicate in real life scenarios, and at the same time, grow their knowledge about the culture of the French speaking world. Class activities provide students with opportunities to practise all four skills and continue to learn more about the target culture. This course is designed to prepare students for French II.

French II

Length & Credit: 1 years / 1.0 credit

Grade: 10

Prerequisite: French I

This course expands on each of the four skills of listening, speaking, reading and writing developed in French I, with a continuing emphasis on using the language in authentic and meaningful ways. The second year introduces the students to more complex grammatical structures and vocabulary related to global and social issues. Students in French II will continue to grow their cultural awareness about the French speaking world. This course is designed to prepare students for French III.

French Language Acquisition (SL/HL)

Length & Credit: 2 years / 2.0 credit

Grade: 11 & 12

Prerequisite: French II

The course focuses on language acquisition, helping students develop their communication skills in French. Through a variety of activities, students engage in listening, speaking, reading, and writing tasks to improve their language proficiency. They explore various topics related to personal, social, and global issues, allowing them to express their thoughts and opinions effectively. Another important aspect of the IB French curriculum is cultural understanding. Students explore French-speaking cultures, traditions, customs, and societal issues. They gain insights into the diversity

and richness of French-speaking communities, enabling them to develop intercultural competence and appreciation for different perspectives.

Spanish I

Length & Credit: 1 years / 1.0 credit

Grade: 9

Prerequisite: Middle School Spanish experience preferred

This course is for high school students who studied the language for one year in middle school or have had limited exposure to Spanish in previous years. The course is built around units that allow students to use language structures to communicate in real life scenarios, and at the same time, grow their knowledge about the culture of the Spanish speaking world. Class activities provide students with opportunities to practise all four skills and continue to learn more about the target culture. This course is designed to prepare students for Spanish II.

Spanish II

Length & Credit: 1 years / 1.0 credit

Grade: 10

Prerequisite: Spanish I

This course expands on each of the four skills of listening, speaking, reading and writing developed in Spanish I, with a continuing emphasis on using the language in authentic and meaningful ways. The second year introduces the students to more complex grammatical structures and vocabulary related to global and social issues. Students in Spanish II will continue to grow their cultural awareness about the Spanish speaking world. This course is designed to prepare students for Spanish III.

Spanish Language Acquisition (SL/HL)

Length & Credit: 2 years / 2.0 credit

Grade: 11 & 12

Prerequisite: Spanish II

This course provides students with the opportunity to review, consolidate, and extend their knowledge of the structures learned in the first two years. The curriculum focuses on language acquisition, helping students develop their communication skills in Spanish. Through a variety of activities, students engage in listening, speaking, reading, and writing tasks to improve their language proficiency. They explore various topics related to personal, social, and global issues, allowing them to express their thoughts and opinions effectively. Another important aspect of the IB Spanish curriculum is cultural understanding. Students explore Spanish-speaking cultures, traditions, customs, and societal issues. They gain insights into the diversity and richness of Spanish-speaking communities, enabling them to develop intercultural competence and appreciation for different perspectives.

Arabic B I (As a Foreign Language)

Length & Credit: 1 years / 1.0 credit

Prerequisite: Middle School Arabic experience preferred

This course is for non-native students who studied the language for one year in middle school or have had limited exposure to Arabic in previous years. The course is built around units that allow students to learn basic language structures, and at the same time, grow their knowledge about the culture of the Arab world. Class activities provide

students with opportunities to practise all four skills and continue to learn more about the target culture. This course is designed to prepare students for Arabic II.

Arabic B II (As a Foreign Language)

Length & Credit: 1 years / 1.0 credit

Prerequisite: Arabic I

This course expands on each of the four skills of listening, speaking, reading and writing developed in Arabic I, with a continuing emphasis on using the language in authentic and meaningful ways. The second year introduces the students to grammatical structures and vocabulary related to real life scenarios. Students in Arabic II will continue to grow their cultural awareness about the Arab world. This course is designed to prepare students for Arabic III.

Arabic Language Acquisition (SL/HL)

Length & Credit: 2 year / 2.0 credit

Grade: 11 & 12

Prerequisite: Arabic II

This course provides students with the opportunity to review, consolidate, and extend their knowledge of the structures learned in the first two years. The curriculum focuses on language acquisition, helping students develop their communication skills in Arabic. Through a variety of activities, students engage in listening, speaking, reading, and writing tasks to improve their language proficiency. They explore various topics related to personal, social, and global issues, allowing them to express their thoughts and opinions effectively. Another important aspect of the IB Arabic curriculum is cultural understanding. Students explore Arabic-speaking cultures, traditions, customs, and societal issues. They gain insights into the diversity and richness of Arabic-speaking communities, enabling them to develop intercultural competence and appreciation for different perspectives.

Arabic Ab Initio

Length & Credit: 2 year / 2.0 credit

Grade: 11 & 12

Prerequisite: None

Ab Initio means "from the beginning" in Latin. Ab is open to students who have no or little knowledge of Arabic. Students will learn the basic building blocks of the language grow in the understanding of vocabulary and speaking. Language ab initio students develop their receptive, productive and interactive skills while learning to communicate in the target language in familiar and unfamiliar contexts. The course is organized around open-ended topics such as identities, experiences and sharing the planet. After two years of studying Ab students will be at intermediate level of their language learning journey and functional in their speaking, listening and ability to communicate in Arabic for daily life.

Arabic A (For Native Speaker)

Length & Credit: 1 years / 1.0 credit

Grade: 9 - 10

Arabic A is a compulsory subject up to and including grade 12 for Arabic passport holders. These courses follow the guidelines of the Ministry of Education and Higher Education. Arabic A courses provide students with a valuable opportunity to learn more about their culture, while building their language proficiency level in reading, writing, speaking, and listening.

Arabic Language and Literature (SL/HL)

Length & Credit: 2 years / 2.0 credit

Grade: 11 & 12

The Arabic A language and literature course aims at studying the complex and dynamic nature of language by exploring both its practical and aesthetic dimensions. The course will explore the crucial role language plays in communication, reflecting experience and shaping the world, and the roles of individuals themselves as producers of language. Throughout the course, students will explore the various ways in which language choices, text types, literary forms and contextual elements all effect meaning.

Islamic Studies A

Length & Credit: 0.5 credit per year

Grade: 9, 10 11 & 12

Islamic A is a compulsory subject up to and including grade 12 for Muslim Arabic passport holders. These courses follow the Qatari curriculum and the guidelines of the Ministry of Education and Higher Education.

Islamic Studies B (Taught in English)

Length & Credit: 0.5 credit per year

Grade: 9, 10 11 & 12

Islamic B is a compulsory subject up to and including grade 12 for all non-Arab Muslim students. These courses follow the Qatari curriculum and the guidelines of the Ministry of Education and Higher Education.

Physical Education Department

The overarching aim of the Physical Education curriculum is to build confidence through a variety of different challenges in a safe and fun environment and inspire all students to succeed and excel in competitive sport and other physically demanding activities. It provides opportunities for students to become physically confident in a way which supports their health and fitness. The curriculum is built around SHAPE America Standards. Students are given the opportunity to experience a wide variety of team and individual sports. Through participation in these activities students can develop fundamental movement patterns, physical literacy, skill acquisition and tactical awareness.

Physical Education I

Length & Credit: 1 year/ 0.5 credit

Grade: 9

Prerequisite: Grade 8 PE

The PE program in Grade 9 is designed to provide each student with experiences and demonstrate physical competencies in fitness, aquatics, and a variety of team and individual sports. The program allows students to use movement concepts and principles to analyse and improve performance, and use strategies and tactics effectively during game play. Students will discuss the benefits of a physically active lifestyle, social media in sports, risk and safety factors in sports, stress management strategies, health related fitness and nutrition. Students will develop social and personal responsibilities associated with participation in physical activities.

Physical Education II

Length & Credit: 1 year/ 0.5 credit

Grade: 10

Prerequisite: Physical Education I

The PE program in Grade 10 is designed to provide each student with experiences to improve physical competencies in fitness, aquatics, and a variety of team and individual sports. The program allows students to apply strategies and tactics when analysing errors in game play. Students will investigate the relationship between physical activity, nutrition, and body composition. Students will apply technology and social media as tools for supporting a healthy and active lifestyle. Students will evaluate risks and safety factors that might affect physical activity preferences in their life. Students will develop social and personal responsibilities associated with participation in physical activities.

Physical Education III

Length & Credit: 1 year/ 0.5 credit

Grade: 11

Prerequisite: Physical Education II

The PE program in Grade 11 is designed to provide each student with experiences in fitness, aquatics, and a variety of team and individual sports. The program focuses on team concepts and strategies, improving physical skills and fitness. Students will apply strategies and tactics during game situations. Students will be able to set their fitness goals, design a

fitness program, calculate target heart rate, solve problems critically in physical activity, and identify the structure of skeletal muscle and fiber types as they relate to muscle development.

Physical Education IV

Length & Credit: 1 year/ 0.5 credit

Grade: 12

Prerequisite: Physical Education III

The PE program in Grade 12 is designed to provide each student with experiences in fitness, aquatics, and a variety of team and individual sports. The program focused on team concepts and strategies, improving physical skills and fitness. Students will apply strategies and tactics during game situations. Students will be able to set their fitness goals and design a fitness program. Students will learn methods of preventing injuries in sports, nutrition and health. Students will improve social and personal responsibilities associated with participation in physical activities. The PE program will focus on critical thinking and analysis skills necessary for developing healthy lifestyles and leadership skills that include decision making, goal setting, and stress management skills.

Sports in Society*

Length & Credit: 1 year / 0.5 credit

Grade: 9

Prerequisite: None

In this course, students will explore the socio-cultural factors that influence participation in physical activity and sport, as well as the broader impact of sport on society. They will examine how factors such as age, gender, ethnicity, disability, and socio-economic status affect engagement in sport. Students will also investigate the role of commercialisation, including sponsorship and media influence, and consider the ethical issues surrounding fair play, gamesmanship, and deviance, such as performance enhancing drug use in sport. Additionally, they will analyse the impact of spectators, both positive and negative, including issues like violence and crowd control. This unit will develop students' understanding of the barriers to participation and the role of sport in shaping societal values.

Health & Nutrition*

Length & Credit: 1 semester/ 0.5 credit

Grade: 10

Prerequisite: None

This elective focuses on improving student understanding of how to eat in a way that is healthy, enjoyable, and will meet individual needs. The elective will also help students to be able to design and implement a nutrition plan to maintain an appropriate energy balance for an active and healthy lifestyle. This course would be a great introduction for a future sports science course option, as well as for those interested in understanding the impact and benefits of being aware of what we consume, and how it impacts the body and mind.

Strength and Conditioning*

Length & Credit: 1 year/ 0.5 credit

Grade: 11

Prerequisite: None

This elective provides students with a comprehensive exploration of the human body's anatomy and physiology, focusing on the skeletal, muscular, cardiovascular, and respiratory systems. Additionally, students will learn the essential components of fitness, fitness testing methods, and various training approaches. By integrating theoretical knowledge with practical applications, students will gain a holistic understanding of the human body and how it responds to exercise. The program focuses on strength training and conditioning to improve the fitness levels and athletic performances in team and individual sports. Students will learn to apply strength training and fitness concepts through the development and implementation of their own personal fitness program.

*PE electives marked with a star comprise of a mix of theory and practical learning experiences. These courses are taught as mixed gender groups.

Additional Courses

Service-Learning Programme

Length & Credit: 1 year/ 0.5 credit

Grade: 12

Prerequisite: None

The Service-Learning Program is an innovative initiative designed to foster civic engagement and personal growth among students at our school. Through meaningful community service projects, students have the opportunity to develop essential skills while making a positive impact in their local and global communities. Participants can earn recognition at three distinct levels: Bronze, Silver, and Gold, based on their commitment and contributions to service activities. Each level requires increasing amounts of volunteering hours, creativity, and active involvement in different activities beyond the school curriculum. Engaging in the Hamilton 7 Stars program not only enriches students' high school experience but also enhances their university applications. Colleges and universities value applicants who demonstrate a commitment to service and leadership. With the Hamilton 7 Stars program, students will cultivate teamwork, empathy, and problem-solving abilities, all while developing a lifelong habit of giving back to their communities.

Extended Project

Length & Credit: 1 year/ 0.5 credit

Grade: 12

Prerequisite: None

The Extended Project offers students a unique opportunity to explore their interests in depth, fostering independent research, creative thinking, and self-directed learning. This self-paced course allows students to earn a High School half credit while engaging in a project of their choice, which can encompass a wide range of topics, whether theoretical or practical. Students are encouraged to pursue a subject they are passionate about, allowing for a personalized learning experience. Each participant will work closely with a designated mentor who will provide guidance, support, and feedback throughout the project. Students are responsible for setting their own deadlines, honing their time management skills, and developing a sense of accountability as they progress. The Extended Project not only cultivates crucial skills in research, analysis, and presentation but also prepares students for the rigors of post-secondary education. By taking ownership of their learning, students will emerge with a deeper understanding of their chosen topic and enhanced confidence in their abilities. This course is a perfect addition for those looking to deepen their academic experience and stand out in college applications.

