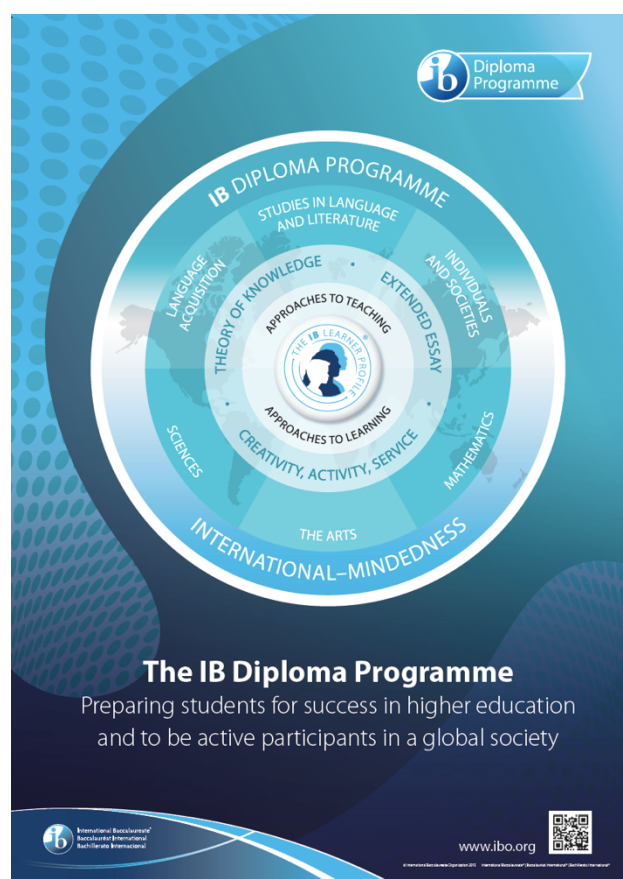


Course Preferences

Below is a sampling of courses that DP students may select based on their post-secondary goals. There is some flexibility within groupings to choose courses of interest. This selection is preliminary for planning purposes. Once students are admitted to the programme, they will conduct a formal course selection under the guidance of a counsellor or the IB DP Coordinator.

Group	Social Science & Arts	Applied Science	Health Science	Liberal Arts	General Studies
1	Literature HL	Literature SL	Literature SL	Literature HL	Literature HL
2	French / Spanish SL	French / Spanish SL	French / Spanish SL	French / Spanish SL	French / Spanish SL
3	Global Politics HL	Geography SL	Geo / Hist / GloPo SL / HL	Geo / Hist / GloPo HL	Hist / Geo/ GloPo HL
4	Biology SL	Chemistry HL	Biology HL	Biology SL	Chem / Bio / Physics HL
5	Math AA SL	Math AA HL	Math AA SL / HL	Math AA SL	Math AA SL
6	History / Geography HL	Physics HL	Chemistry HL	Film / Visual Art HL	Film / Visual Arts SL



Selecting Course Preferences:

Student must select one course from each of the six groups, as depicted in the IB DP Framework.

See offerings in each group and course descriptions on subsequent pages.

3 courses must be at Higher Level (HL)

3 courses must be at Standard Level (SL).

HL classes additional hours of instruction, more advanced curriculum and additional assessment. Students should select HL courses based on keep areas of interest, academic strength, and post-secondary requirements. Counsellor guidance will be offered to ensure students have selected the appropriate courses once students are admitted to the program.

NOTE: Students may choose to take an additional group 3 or 4 course in lieu of a group 6 course. In this case, do not select a group 6 course. Instead, indicate your additional group 3 or 4 course.

IB DP Course Offerings

(Note: Not all of these courses will run. Offerings are subject to change based on student interest):

<p style="text-align: center;">Group 1: Studies in Language & Literature</p> <ul style="list-style-type: none"> • Language A: IB English Language & Literature SL • Language A: IB English Language & Literature HL • Language A: IB Self-taught mother tongue SL 	<p style="text-align: center;">Group 4: Science</p> <ul style="list-style-type: none"> • IB Biology SL • IB Biology HL • IB Physics SL • IB Physics HL (required for Applied Science post-secondary programs) • IB Chemistry SL • IB Chemistry HL (required for Applied Science post-secondary programs) • IB Computer Science SL • IB Computer Science HL • IB Design Technology SL • IB Design Technology HL • IB Sports, Exercise & Health Science SL • IB Sports, Exercise & Health Science HL • IB Environmental Systems & Societies SL
<p style="text-align: center;">Group 2: Language Acquisition</p> <ul style="list-style-type: none"> • Language B: IB French SL • Language B: IB Spanish SL 	<p style="text-align: center;">Group 5: Mathematics</p> <ul style="list-style-type: none"> • IB Math AI SL (MAY NOT satisfy many post-secondary program entry requirements.) • IB Math AI HL • IB Math AA SL • IB Math AA HL (required for Applied Science post-secondary programs)
<p style="text-align: center;">Group 3: Individuals & Societies</p> <ul style="list-style-type: none"> • IB History SL • IB History HL • IB Geography SL • IB Geography HL • IB Global Politics SL • IB Global Politics HL 	<p style="text-align: center;">Group 6: The Arts</p> <ul style="list-style-type: none"> • IB Film SL • IB Film HL • IB Visual Arts SL • IB Visual Arts HL

GROUP 1: Studies in Language & Literature

IB Language A: English Literature SL/HL

IB Literature (English) is a theme-based course that introduces students to the investigation of literary texts. This course involves a comprehensive exploration of literature from a variety of cultures, genres and periods. The study of literary works in context is emphasized and through the study of literature in translation, the student is challenged to reflect on the role of cultural assumptions in interpretation. Students engage with and learn to appreciate the artistry of literature, and develop the ability to reflect critically on their reading, presenting literary analysis powerfully through both oral and written communication. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Language A: Self-Taught Mother-Tongue SL

Students should only elect to take this course if they have do not have the pre-requisite French or Spanish requirement for IB Language B French or Spanish, and the student speaks, thinks and writes fluently in their mother-tongue. While a supervisory teacher will guide the student through the course, the teacher will not instruct the student. Being a self-taught student offers a unique opportunity to study the literature of a language that may not be offered at your school as a taught subject. A certain level of autonomy is expected, for example you will be asked to develop a list of literary works and a timeline. You will also be expected to autonomously administer the 150 hours required for the study of the course. IB requires that students find their own tutor in this language who can support their learning and assess their work. This tutor must have advanced fluency in the language, be familiar with the literary texts, and have a high level of academic ability. The student must consult with the IB Coordinator to enrol in this course. This is an exceptionally challenging course and students should only take this option if necessary and prepared for the requirements.

GROUP 2: Language Acquisition

IB Language B: French SL

Pre-requisite: French 10

In IB French, students develop their language skills with a long-term view to functional bilingualism. The course is built around aspects of three Core Themes: Communication & Media, Global Issues and Social Relationships. There is also a choice of two Optional themes to be explored: Customs & Traditions, Cultural Diversity, Leisure, Health and Science & Technology. Students will seek understanding of other languages and cultures, as they explore these themes particularly as they relate to French-speaking countries. Course-related projects, interactive activities and readings will provide opportunities to develop cultural awareness as well as provide significant language development. This is an IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Language B: Spanish SL

Pre-requisite: Spanish 10

In IB Spanish, students develop their language skills with a long-term view to functional bilingualism. The course is built around aspects of three Core Themes: Communication & Media, Global Issues and Social Relationships. There is also a choice of two Optional themes to be explored: Customs & Traditions, Cultural Diversity, Leisure, Health and Science & Technology. Students will seek understanding of other languages and cultures, as they explore these themes particularly as they relate to Spanish-speaking

countries. Course-related projects, interactive activities and readings will provide opportunities to develop cultural awareness as well as provide significant language development. This is an IB DP course. Students must complete both years of the course and the external examination to receive course credit.

GROUP 3: Individuals & Societies

IB Global Politics SL/HL

Global Politics is about the study of power— those who have it, and how they use it to influence the global society. The 21st century is characterized by rapid change and increasing interconnectedness, impacting individuals and societies in unprecedented ways and creating complex global political challenges. Global politics is an exciting, dynamic subject that draws on a variety of disciplines in the social sciences and humanities, reflecting the complex nature of many contemporary political issues. Core topics include: types of power, political theories, peace and conflict, international development, and international relations. In the course, students examine case studies on current events like: equality, poverty, climate change, sustainability, terrorism, and more. Students in this course will develop an understanding of the local, national, international and global dimensions of political activity, as well as explore political issues affecting their own lives. The study of global politics enables students to critically engage with different and new perspectives and approaches to politics in order to comprehend the challenges of the changing world and become aware of their role in it as active global citizens. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB History SL/HL

IB History is a global history course based on a comparative and multi-perspective approach to history. It involves the study of a variety of types of history, including political, economic, social and cultural, and provides a balance of structure and flexibility. The course emphasizes the importance of encouraging students to think historically and to develop historical inquiry skills as well as gaining factual knowledge. It puts a premium on developing the skills of critical thinking, and on developing an understanding of multiple interpretations of history. Topics include: Industrialization, The Move to Global War, The Great Depression, The Cold War (SL), and The Americas and Its Political Development since 1960 (HL). This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Geography SL/HL

IB Geography is a course that revolves around the themes of population change, climate change, resource management and environmental sustainability. The theme of population involves an examination of past, current, and future trends in areas such as distribution, fertility, mortality, disease, migration, and age structure. The theme of climate change entails the study of the causes of, impacts of and responses to global temperature shifts. The themes of environmental sustainability and resource management examine patterns of resource production, consumption, availability, distribution and trade, as well as the impacts of these activities on the environment. Special topics include: living in urban environments, geophysical hazards (like earthquakes and volcanoes), and food and human health. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

GROUP 4: Sciences

IB Biology SL/HL

In IB Biology, students aim to question, investigate, and understand the living world at all levels using many different approaches and techniques. In year one, students explore molecular biology, the cell, genetics, evolution, ecology and biodiversity. In year two, students further their understanding of the interconnectedness of the living world through the study of metabolism, human physiology and plant biology. Students have opportunities to design investigations, collect data, develop manipulative skills, analyze results, collaborate with peers and evaluate and communicate their findings. The nature of science, as an overarching theme, will allow students to appreciate the global context of scientific study. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Physics SL/HL

This course provides students with an understanding of the dual nature of Physics both theoretical and practical as well as it will increase their command of the use of Mathematics as the language of Physics. This course will explore concepts ranging from Newtonian mechanics up to modern Physics; it has a heavy emphasis on laboratory work as an integral part of the learning process. A main objective is to challenge students to think about and analyze how physical principles have been applied to construct and alter our material world to suit our needs. This raises the issue of the impact of physics on society, the moral and ethical dilemmas, and the social, economic and environmental implications of the work of physicists. Students will also explore the international context within which physics exists and examine issues from more than one side. Other topics include: Kinematics, Dynamics, Momentum, Energy, Circular Motion, Thermal Energy, Atomic theory, Waves, Optics. Students will complete a portfolio of investigations that includes an extended experiment. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Chemistry SL/HL

This course will introduce scientific techniques for Measurement and Data Processing. We will explore Stoichiometric Relationships, Atomic Structure, trends in Periodicity, Chemical Bonding, Energetics, Chemical Kinetics, Equilibrium, Acids and Bases, Electrochemistry and Organic Chemistry. IB Chemistry combines academic study and the development of practical and investigational skills. Students will use the scientific method, developing and testing hypotheses, critically analyzing their results, and concluding based on their experimental data. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Sports, Exercise & Health Science SL/HL

This is a science course that incorporates disciplines such as anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. The syllabus covers a range of core topics, such as: skills in sports, sports psychology, anatomy, movement analysis, exercise physiology, measuring human performance, and energy systems. The course involves carrying out practical investigations in both lab and field settings. The course will consider sport, exercise and health relative to the individual in a global context. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Computer Science SL/HL

The IB Computer Science course requires an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. The course, underpinned by conceptual thinking, enables and empowers innovation, exploration and the acquisition of further knowledge in a diverse set of topics: computer hardware and networking, system management, computational thinking, and the fundamentals of programming and data management. Students also study how computer science interacts with and influences cultures and society as well as the ethical issues surrounding computer science's impacts on our world. During the course the student will also develop technical skills in the field of computer science by reviewing, reproducing, and creating algorithms and software using the Java programming language. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Design Technology SL/HL

The IB Design Technology course is a group four course which studies the impact of new technologies on modern global society. Analysis, design development, synthesis and evaluation, through the practical application of the design cycle are studied. Students apply the design cycle and develop problem solving, development of feasible solutions, as well as, testing and evaluation of the solution. Solutions may be a model, prototype, product or system which students develop throughout the course. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit. Students study six core topics: Human factors and ergonomics, resource management and sustainable production, modelling, raw material to final product, innovation and design and classic design. Practical application of knowledge is the focus of the course. Students spend approximately 40 hours creating an individual design project.

IB Environmental Systems & Societies SL only

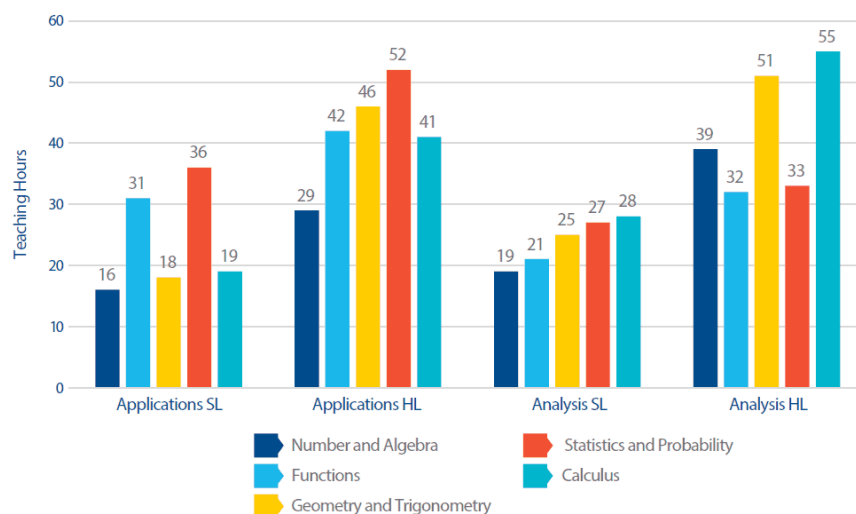
Environmental systems and societies (ESS) is a course for those who want to understand and evaluate how natural and human factors work together to impact the environment positively and negatively. This course explores how the geosphere, hydrosphere, biosphere, and atmosphere function as an interconnected global system. It also addresses how humans play a role in this system by addressing politics, diverse cultures, economics, ethics, and social interactions. ESS combines these understandings of environmental systems and human societies to engage with controversies that surround environmental issues and to discuss and develop creative solutions to these issues. The course involves several field studies to apply knowledge and skills for analyzing environmental systems. ESS nicely complements the Geography course and is only offered at standard level (SL). This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

GROUP 5: Mathematics

IB Mathematics

Individual students have different needs, aspirations, interests and abilities. For this reason, there are two different DP subjects in mathematics: **Mathematics: analysis and approaches (AA)** and **Mathematics: applications and interpretation (AI)**. Each course is designed to meet the needs of a particular group of students. Both courses are offered at SL and HL.

Mathematics Subject Breakdown



IB Math Applications & Interpretations (AI) SL/HL

The IB DP Mathematics: applications and interpretation course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes:

- modelling & statistics,
- skills that enable students to apply math to the real-world,
- and real mathematical problem-solving using technology.

This course includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. Students are encouraged to construct and communicate the solving of real-world problems mathematically and interpret the conclusions or generalizations. This course is suitable for students who wish to pursue post-secondary programs in the fields of: social science, law, liberal arts, fine arts, education, and psychology. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit. Math AI SL may not satisfy entry to post-secondary programs. Students should consult with the IB Coordinator before selecting Math AI.

IB Math Analysis & Approaches (AA) SL/HL

Students may benefit from taking Pre-calculus 11 prior to starting Math AA. Pre-calculus 11 is offered in summer school.

Analysis and Approaches is appropriate for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. Emphasis is on:

- algebraic methods,
- developing mathematical thinking skills,
- and real and abstract mathematical problem solving.

This course caters to students who already possess knowledge of basic mathematical concepts and who are equipped with the skills needed to apply simple mathematical techniques correctly. In this course students will explore real and abstract applications of these ideas with and without the use of technology. This course will cover topics in number, algebra, functions, statistics, probability, trigonometry, geometry, and calculus. Math AA at the HL will cover an advanced level of the topics listed previously. This course is aimed at students who will go on to study subjects with substantial mathematics content, such as

chemistry, biology, physics, engineering, business, or economics. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

GROUP 6: The Arts

IB Film SL/HL

The creation, presentation and study of film requires courage, passion and curiosity: courage to create individually and as part of a team, to explore ideas through action and harness the imagination, and to experiment; passion to communicate and to act communally, and to research and formulate ideas eloquently; curiosity about self and others and the world, about different traditions, techniques and knowledge, about the past and the future, and about the limitless possibilities of human expression through the art form. At the core of the course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement and imaginative synthesis that is achieved through practical engagement in the art and craft of film. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.

IB Visual Art SL/HL

The IB Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to further study of visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts. This is a two-year IB DP course. Students must complete both years of the course and the external examination to receive course credit.