

American International School of Lagos

High School Course Guide

2012/13



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Selecting Your Subjects: *Which subject should I take?*

On the following pages, you will find three tables:

1. *Pathways towards success in Math and Science*
2. *HS Subject Pathways Towards Success in Grades 11 and 12*
3. *Suggested Minimum Gr. 10 Grades for IB Success*

These tables are designed only as “guides” and were not created as tablets of stone. The data in the tables allows students and parents to reflect upon their grades and to carefully consider the three academic pathways available at AISL:

1. AISL High School Diploma.
2. AISL High School Diploma with IB Certificates in specific subjects
3. AISL High School Diploma as well as the full IB Diploma

No academic path is either right or wrong, better or worse, but it is about finding the “best fit” for a student, while considering his/her aspirations for their academic future after high school.

For some, the AISL HS Diploma will satisfy their requirements. Others, who have their minds set on being considered as competitive admissions candidates for the more selective colleges around the globe, will need to embark upon the most rigorous academic program on offer at AISL and that is the full IB Diploma in addition to the regular AISL HS Diploma.

The first table, *Math Prerequisites for Success in Science Subjects* allows parents and students to understand the math prerequisites needed to be successful in the various sciences. This table has been designed by the Math and Science Departments and is to be used to help guide students across grades 9 – 12.

The second table, *HS Subject Pathways Towards Success in Grades 11 and 12*, allows students in Grades 9 and 10 to get a clear vision of what grades place them in the best possible position for success in Grades 11 and 12, whether it be for the AISL HS Diploma, the AISL Diploma with Certificates or the AISL HS Diploma and the full IB Diploma.

The third table, *Suggested Minimum Gr. 10 Grades for IB Success*, gives Grade 10 students a more comprehensive guide to the grades they need to have the best chance of success in the IB program. Students who have not met the grades indicated on the table must seriously consider whether the IB Certificates or the full IB Diploma actually meets their academic needs. The regular AISL HS Diploma might be a better option.

Throughout the tables and in the subject offerings you will come across the term “no IB Certificate” or “NC” next to course names. All students at AISL can follow the IB curriculum in most subjects however only Certificate and Diploma Candidates will sit for the complete range of assessments expected for IBO certification. Students can therefore gain recognition on their transcript for undertaking an IB course and internal assessments however they will not gain IBO certification unless they sit for the additional IB exams in those courses.

These tables have been created using the experience and knowledge of the AISL IB teachers who will be instructing you. They have been created in your best interest so that you can make informed choices when it comes to subject selection.

Listen carefully to the people around you: the teachers, IB Coordinator, Counselor, Principal and your parents. Ask many questions and be happy with your academic pathway.

B Phipps
HS Counselor

Course Offering Overview By Department

ENGLISH

Eng I
Eng II
Eng III
Eng IV
IB Eng SL I
IB Eng SL II
IB Eng HL I
IB Eng HL II

ENGLISH LANGUAGE LEARNING

ELL Grade 9
ELL Grade 10

SOCIAL SCIENCES

History: United States 1877 - present
History: World
History: Contemporary World
Comparative World Religions
Sociology
IB Hist SL I (Europe and M.E.)
IB Hist SL II (20th C World History)
IB Hist HL I
IB Hist HL II
IB Econ SL (One year course)
IB Econ SL I
IB Econ SL II

SCIENCE

Chem I
IB Chem SL I
IB Chem SL II
IB Chem HL I
IB Chem HL II
Bio I
IB Bio SL I
IB Bio SL II
IB Bio HL I
IB Bio HL II
Phys I
IB Phys SL I
IB Phys SL II
IB Phys HL I
IB Phys HL II
Environmental Science I

FOREIGN LANGUAGE - FRENCH

Fren I
Fren II
Fren III
Fren IV
Fren V
IB Fren Ab I
IB Fren Ab II

IB Fren B SL I
IB Fren SL II
IB Fren B HL I IB Fren B HL II

FOREIGN LANGUAGE - SPANISH

Span I
Span II
Span III
Span IV / V
IB Span Ab I
IB Span Ab II
IB Span B SL I
IB Span B SL II
IB Span B HL I
IB Span B HL II

MATH

Alg I
Geom I
Alg II
IB Math Studies SL I
IB Math Studies SL II
IB Math SL I
IB Math SL II
IB Math HL I
IB Math HL II

PERFORMING ARTS

Drama
Jazz Band
Symphonic Band
Symphonic Gold
IB Music SLG I (One year course)

VISUAL ART

Art Foundations I
Art Foundations II
IB Art SL I
IB Art SL II
IB Art HL I
IB Art HL II

HEALTH AND PHYSICAL EDUCATION

HPE I
HPE II
Self Defense I
Personal Fitness and Conditioning I

ADDITIONAL COURSES

^ SAT Preparation (Grade 10 only)
^ TOK I
^ TOK II
^ Semester long course

Math Prerequisites for Success in Science Subjects?

9 th Grade		10 th Grade		11 th and 12 th Grades	
MATH LEVEL	SCIENCE OPTIONS	MATH LEVEL	SCIENCE OPTIONS	MATH LEVEL	SCIENCE OPTIONS
Algebra 1	Biology I Environ Sci I	Geometry	Chemistry I Biology I Environ Sci I	IB Math Studies	Chemistry I Biology I Environ Sci I IB Bio SL/HL IB Chem SL*
Geometry	Chemistry I Biology I Environ Sci I	Algebra 2	Chemistry I Biology I Environ Sci I Physics I	IB Math Studies	Chemistry I Biology I Environ Sci I Physics I IB Bio SL/HL IB Chem SL* IB Physics SL*
				IB Math SL/HL	Chemistry I Biology I Environ Sci I Physics I IB Bio SL/HL IB Chem SL/HL IB Phys SL/HL

Notes: All courses are year long courses

* Students who wish to take advanced courses in math and/or science will need to have successfully completed Algebra II and/or scored an acceptable grade on a placement test for the particular subject. Students in the regular math track may develop and enhance their math skills and prepare for a rigorous placement test by undertaking such measures as successfully completing: two math courses in one year, a summer math course, an online math course, an intensive math tutoring and a math prep course.

Subject Pathways Towards Success in Grades 11 and 12

Grade 9	Grade 10	SMG*	Grade 11	Grade 12
ENGLISH				
Eng I	Eng II	C	Eng III	Eng IV
		C	IB Eng SL I	IB Eng SL II
		B+	IB Eng HL I	IB Eng HL II
SOCIAL SCIENCES				
Hist: US	Hist: World	B	IB Hist SL I	IB Hist SL II
		B	IB Hist HL I	IB Hist HL II
			IB Econ SL I (1 yr course)	IB Econ SL I (1 yr course)
			IB Econ SL I	IB Econ SL II
			IB Econ HL I	IB Econ HL II
History: Contemp. World (Must have completed History: World)				
Sociology I				
Comparative World Religions I				
<i>Note: Hist: US History, World History, Contemporary World History, Sociology, Comparative World Religions may be taken in any year.</i>				
SCIENCES				
<i>Env Sci I: One year course only and may be taken in any grade</i>				
Chem I <i>1 yr course and must have completed Alg I</i>		C	IB Chem SL I	IB Chem SL II
		B+	IB Chem HL I	IB Chem HL II
Bio I		C	IB Bio SL I	IB Bio SL II
		B+	IB Bio HL I	IB Bio HL II
	Phys I <i>Must be in Alg II</i>	C	IB Phys SL I	IB Phys SL II
		B+	IB Phys HL I	IB Phys HL II
<i>Note: Env Sci I, Chem I, Bio I may be taken in any year from Grades 9 – 12 provided students meet math prerequisite requirements. Phys I can only be taken in grades 10 – 12 provided students meet math prerequisite requirements.</i>				
WORLD LANGUAGES				
	Fren I	B	IB Fren Ab I	IB Fren Ab II
Fren I	Fren II	C	IB Fren Ab I	IB Fren Ab II
Fren II	Fren III	C	IB Fren B SL I	IB Fren SL II
		B	IB Fren B HL I	IB Fren B HL II
Fren III	Fren IV	C	IB Fren B SL I	IB Fren B SL II
		B	IB Fren B HL I	IB Fren B HL II
	Span I	B	IB Span Ab I	IB Span Ab II
Span I	Span II	C	IB Span Ab I	IB Span Ab II
Span II	Span III	C	IB Span B SL I	IB Span B SL II
		B	IB Span B HL I	IB Span B HL II
Span III	Span IV	C	IB Span B SL I	IB Span B SL II
		B	IB Span B HL I	IB Span B HL II
<i>Note: French and Spanish I, II, III, IV, V may be taken in any year from Grades 9 – 12 provided students meet prerequisite requirements</i>				
MATH				
Alg I	Geom	C	IB Math Studies I (no IB certificate)	IB Math Studies II (no IB certificate)
		B	IB Math Studies SL I	IB Math Studies SL II
Geom	Alg II	C	IB Math Studies SL I	IB Math Studies SL II
		B-	IB Math SL I	IB Math SL II
		A-	IB Math HL I	IB Math HL II
<i>Note: Algebra I, Geometry and Algebra II may be taken in any year from Grades 9 – 12 provided students meet prerequisite requirements</i>				
ARTS				
Symphonic Band	Symphonic Band	C	Symphonic Band	Symphonic Band
		B	Symphonic Gold	Symphonic Gold
		A	IB Music SLG I (One year course)	IB Music SLG I (One year course)
Symphonic Gold	Symphonic Gold	C	Symphonic Gold	Symphonic Gold
		B	IB Music I	IB Music II
		B	IB Music SLG I (One year course)	IB Music SLG I (One year course)
Jazz Band: Students must also take Symphonic Band or Symphonic Gold One year course however may exit and enter at semester				
Drama I (One year elective with repeat option. Students may exit and enter at semester)				
Art Foundation I	Art Foundation II	C	IB Art I (no IB certificate)	IB Art I (no IB certificate)
		B+	IB Art SL I	IB Art SL II
		A	IB Art HL I	IB Art HL II
HEALTH AND PHYSICAL EDUCATION				
Health and Physical Education I (One year course)				
Health and Physical Education II (One year course)				
Self Defense (One year course however may exit and enter at semester).				
Fitness and Conditioning (One year course however may exit and enter at semester).				

- Students who wish to take advanced courses in math and/or science will need to have successfully completed Algebra II and/or scored an acceptable grade on a placement test for the particular subject.
- SMG= Suggested minimum Gr. 10 grades that may allow a student the best opportunity for a successful IB experience.
- SL and HL denote testing options for students who want to graduate with either IB Certificates or the full IB Diploma.
- HS Sym Band or Sym Gold must be taken in conjunction with IB Music

Recommended Minimum Gr. 10 Grades for IB Success.

Minimum grades in Grade 10 that afford a student the best opportunity for a successful IB experience.

	Bio I	Chem I	Phys I	Alg I	Geom	Alg II	Eng 10	Hist Wld	Span III	Fren III	Art II	Sym Bnd
IB Math HL						A-	B					
IB Math SL						B-	C					
IB Math Studies SL					B		C					
IB Chem HL		B+				B	<i>Must be enrolled in IB Math (SL or HL)</i>					
IB Chem SL		C		B								
IB Bio HL	B+				B		B					
IB Bio SL	C				C		C					
IB Phys HL			B+		B+	B+	<i>Must be enrolled in IB Math (SL or HL)</i>					
IB Phys SL			C		C+	C+						
IB Eng HL							B+	B				
IB Eng SL							C	C				
IB Hist HL							B	B+				
IB Hist SL							B	B				
IB Econ SL						B	B					
IB Econ HL						B+	B					
IB Fren HL										B+		
IB Fren SL										C		
IB Span HL									B+			
IB Span SL									C			
IB Art HL							B				A	
IB Art SL							C				B+	
IB Music SLG (1 yr course)					C		C					B
IB CAS							C					
IB Extended Essay	<i>At least a B in the subject area of Essay interest</i>						C	<i>At least a B in the subject area of Essay interest</i>				
IB TOK							C					

NOTE* Students who wish to take advanced courses in math and/or science will need to have successfully completed Algebra II and/or scored an acceptable grade on a placement test for the particular subject. Students in the regular math track may develop and enhance their math skills and prepare for a rigorous placement test by undertaking such measures as successfully completing: Two math courses in one year, a summer math course, an online math course, intensive math tutoring or a math prep course.

2012/13 Course Offerings

English Department

English I

Prerequisite: None

Length: One year

Credit: One full credit

Description: In this course students develop advanced skills in both reading and writing. They will identify and understand symbolism and personification in prose and poetry. Students will read a variety of grade-level-appropriate internationally minded literary texts to begin to solidify their own areas of reading interest. They will write and deliver more extensive research reports and essays that take a position on a topic and are supported by citing a variety of reference sources. Students will study grammar, mechanics, sentence structure, style, voice and the organization of ideas in order to clearly communicate their thinking on a topic.

English II

Prerequisite: Successful completion of English I

Length: One year

Credit: One full credit

Description: This course is designed to develop a student's verbal and analytical skills. Students will learn to examine the different contexts of literature as well as both the literary and dramatic elements. Students will study grammar, mechanics, sentence structure, style, voice and the organization of ideas in order to clearly communicate their thinking on a topic.

English III

Prerequisite: Successful completion of English II

Length: One year

Credit: One full credit

Description: This course focuses on challenging texts in a multiple genres and historical periods from internationally acclaimed authors. The student will develop a global perspective of the human experience and a personal appreciation of literature. Students learn the language of literary analysis in order to be able to systematically analyze a writer's style, use of structure and content.

English IV

Prerequisite: Successful completion of English III

Length: One year

Credit: One full credit

Description: This course builds on existing curriculum by adding authors and works in poetry, short stories and essays. Students are expected to master the skills for literary analysis and written composition.

IB English SL I / IB English SL II

Prerequisite: Successful completion of English II

Length: Two Years

Credit: One full credit per year

Description: This course focuses on challenging texts in multiple genres and historical periods from international authors. The IB student will develop a global perspective of the human experience and a personal appreciation of literature. Students learn the language of literary analysis in order to be able to systematically analyze a writer's style, use of structure and content. The IB II course builds on existing curriculum by adding authors and works in poetry, short stories and essays. Students are expected to master the skills for literary analysis and written composition.

IB English HL I / IB English HL II

Prerequisite: Successful completion of English II

Length: Two Years

Credit: One full credit per year

Description: This course focuses on challenging texts in multiple genres and historical periods from international authors. The IB student will develop a global perspective of the human experience and a personal appreciation of literature. Students learn the language of literary analysis in order to be able to systematically analyze a writer's style, use of structure and content. At this level, students take on an additional course work in preparation for the higher-level exams. Students are expected not only to increase organizational and analytical writing skills, but are also expected to do sophisticated comparisons of authors and works. This course adds requirements and course load to the standard level IB English II course.

English Language Learning Department

ELL

Prerequisite: None

Length: One Year

Credit: One full credit

Description: The ELL course is designed to help students reach grade level proficiency in English across their varying subjects. To achieve this goal, students will read and interpret a variety of media, (including both written and visual), and produce oral and written responses.

Social Sciences Department

History I: United States (1877 - present)

Prerequisite: None

Length: One Year

Credit: One full credit

Description: After reviewing fundamental themes in early United States history, students will focus upon the more recent developments of the 20th Century. The

curriculum focuses on important events and conflicts, influential people and major cultural, economic, geographic and political factors that have impacted the history of the nation and have affected the course of world history.

History II: World

Prerequisite: None.

Length: One Year

Credit: One full credit

Description: This is a one year survey course that emphasizes key events and developments in the past that have influenced both people and places in subsequent eras. The course includes but is not limited to a study of Ancient Greece, the Roman Empire, the Middle Ages, the Renaissance including the age of European Exploration, Absolutism and Revolution. The course culminates with Imperialism and contemporary Africa. Students are expected to practice skills and processes of historical thinking and research in preparation for IB.

History III: Contemporary World

Prerequisite: Successful completion of History World I recommended

Length: One Year

Credit: One full credit

Description: The primary focus of this course is the history of the 20th and 21st Centuries. Students will study issues pertaining to the main economic, political and social events of the world today. This course also invites comparisons between different cultures, belief systems and national traditions.

Sociology I

Prerequisite: None

Length: One Year

Credit: One full credit

Description: The course introduces the basic concepts, principles, and major areas of sociology. Topics include the nature of society, social organizations, and major social institutions.

Comparative Religions I

Prerequisite: None

Length: One Year

Credit: One full credit

Description: In this course students will explore the religions that have shaped history, civilizations and their next-door neighbors' views. They will learn about the founders, the history and essential teachings of each of these major religions: Hinduism, Christianity, Judaism, Buddhism, Islam, Confucianism, and Taoism.

IB History SL I / IB History SL II

IB History HL I / IB History HL II

Prerequisite: Successful completion of History II highly recommended for SL candidates and mandatory for HL candidates.

Length: Two Years

Credit: One full credit per year

Description: Throughout the first part of the two-year history course, students will be required to make comparisons between similar and dissimilar solutions to common human situations whether they are economic, political or social. This course also invites comparisons between different cultures, politics and national traditions. *The primary focus in Year 1 is the history of Europe and the Middle East, from the 19th and 20th Centuries.*

Following the thematic thread of IB History SL/HL course, the focus of the second year is the detailed study of the main topics in Paper 1 and Paper 2 of the IB History Exam (SL & HL), along with our chosen Prescribed Subject. *The primary focus in Year 2 is 20th Century World History, dealing mainly with the Arab-Israeli Conflict, The Cold War (1945-1995), Rise and Rule of Single-Party States, and Causes, Practices and Effects of War.* Students will again be required to make comparisons as they effectively prepare for the IB History exams. This sequencing will allow for students at the SL and HL levels to be fully prepared for their May IB History Examinations in Year 2.

IB Economics SL I (Offered in 2012/13 year only)

Prerequisite: Successful completion of Algebra II

Length: One Year course Test in first year

Credit: One full credit

Description: The aim of this course is to provide students with an understanding of how individuals, organizations, societies, and regions organize themselves in the pursuit of economic objectives. Students will be encouraged to develop an interest in and an awareness of other cultures and their economic systems. The course is a one-year in length beginning with an introduction to the topic, followed by microeconomics, macroeconomics, international trade, and development economics. Throughout the course, students will be encouraged to apply economic theory to diverse global issues and events in order to analyze and evaluate possible outcomes. For IB credit, students will complete four pieces of internal assessment and take the IB SL Economics exam at the end of their first year.

IB Economics SL I / IB Economics SL II

Prerequisite: Successful completion of Algebra II

Length: Two Years

Credit: One full credit per year

Description: The aim of this course is to provide students with an understanding of how individuals, organizations, societies, and regions organize themselves in the pursuit

of economic objectives. Students will be encouraged to develop an interest in and an awareness of other cultures and their economic systems. The course is a two-year sequence beginning with an introduction to the topic, followed by microeconomics, macroeconomics, international trade, and development economics. Throughout the course, students will be encouraged to apply economic theory to diverse global issues and events in order to analyze and evaluate possible outcomes. For IB credit, students will complete four pieces of internal assessment and take the IB SL Economics exam at the end of the second year.

IB Economics HL I / IB Economics HL II

Prerequisite: Successful completion of Algebra II

Length: Two Years

Credit: One full credit per year

Description: The aim of this course is to provide students with an understanding of how individuals, organizations, societies, and regions organize themselves in the pursuit of economic objectives. Students will be encouraged to develop an interest in and an awareness of other cultures and their economic systems. The course is a two-year sequence beginning with an introduction to the topic, followed by microeconomics, macroeconomics, international trade, and development economics. The topics will be covered in more depth than in the SL course. The HL course concentrates on real-world issues rather than abstract concepts. Students will be encouraged to apply economic theory to diverse global issues and events in order to analyze and evaluate possible outcomes. For IB credit, students will complete 4 pieces of internal assessment, and take the HL Economics exam at the end of the second year.

Science Department

Chemistry I

Prerequisite: Successful completion of Algebra I (B+ or greater)

Length: One Year

Credit: One full credit

Description: In this course students will study the composition, structure, properties and reactions of matter. Students will also develop skill in designing and performing laboratory experiments.

IB Chemistry SL I / IB Chemistry SL II

Prerequisite: Successful completion of Chemistry I (C or better) and Algebra I (B or better)

Length: Two Years

Credit: One full credit per year

Description: In this course students will investigate the structure and properties of atoms and molecules and how they interact in chemical reactions. Students will also study topics in quantitative chemistry, atomic structure,

periodicity, bonding, energetics, kinetics, equilibrium and acids / bases.

IB Chemistry HL I / IB Chemistry HL II

Prerequisite: Successful completion of Chemistry I (B+ or better) and Algebra II (B or better)

Length: Two Years

Credit: One full credit per year

Description: This course studies the topics listed above in IB Chemistry I – Standard Level to a greater extent and depth. The majority of these students will be expecting to include science as a major component of their university studies.

Biology I

Prerequisite: None

Length: One Year

Credit: One full credit

Description: Biology is devoted to the study of living things and their processes. Throughout the year, this course provides an opportunity for students to develop scientific process skills, laboratory techniques, and an understanding of the fundamental principles of living organisms. Students will explore biological science as a process, cell structure and function, genetics and heredity, evolution and classification, diversity of living organisms and their ecological roles, and an introduction to animal structure and function.

IB Biology SL I / IB Biology SL II

Prerequisite: Successful completion of Biology I

Length: Two Years

Credit: One full credit per year

Description: The course includes studies in cell structure and function, basic biochemistry, DNA and protein synthesis, cell division, genetics, genetic engineering, ecology, populations, pollution, photosynthesis, and the chemistry of life and one option. There will also be a ten-hour group research project in the second semester, as well as a substantial amount of laboratory work. The course follows studies in human health and physiology, including nutrition, transport system, defense against disease, gas exchange, homeostasis, human reproduction and one further Option chosen from a selection. There will be substantial laboratory work.

IB Biology HL I / IB Biology HL II

Prerequisite: Successful completion of Biology I

Length: Two Years

Credit: One full credit per year

Description: The course includes studies in cell anatomy, the chemistry of life, molecular biology, theoretical and applied genetics, ecology, classification, diversity, and one further option. There will also be a ten-hour group research project in the second semester, as well as a substantial amount of laboratory work. Current

developments in biology will be considered as they arise. IB HL Biology is for students who are strong in science and may be considering studying a biology-related degree at university. Students might consider taking IB Chemistry concurrently. It will help to be conversant with a number of chemical principles both for the IB HL Biology course and for most biology-related undergraduate studies at university.

The 2nd year of the course follows studies in human health and physiology, including nutrition, transport system, defense against disease, gas exchange, homeostasis and reproduction, respiration, photosynthesis, advanced genetics, genetic engineering, plant science, and one further option chosen from a selection. There will be substantial laboratory work. Current developments in biology will be considered as they arise. Students who take this course will be expected to sit for the IB HL examination.

Physics I

Prerequisite: Successful completion of Algebra I

Length: One Year

Credit: One full credit

Description: Physics I is an introduction to physical principles and provides a foundation for more advanced high school studies. Great emphasis is placed on laboratory work and problem-solving skills, including gathering and presenting data from experimental work and the analysis and evaluation of these results. Topics include measurement and density, thermal properties of matter, energy and heat transfer, magnetism, and interaction with electricity, electrostatics and domestic electricity, the study of energy concepts, atomic and nuclear physics, electricity, waves and optics and mechanics. To improve scientific literacy connections are made between science concepts and technology related issues in society.

IB Physics SL I / IB Physics SL II

Prerequisite: Successful completion of Physics I, Geometry, Algebra II

Length: Two Years

Credit: One full credit per year

Description: IB Physics SL is the first of a two-year IB Physics sequence, designed to prepare students for the (IB) exam in physics (SL). It covers the “core” which comprises of Mechanics (Linear motion, Forces, Work, Momentum, Newton’s laws, Circular motion, electricity, magnetism and atomic and nuclear physics, and Energy/Power) Waves, Thermal physics and Energy/Climate change. There is an emphasis on problem solving, numerical manipulation, and laboratory skills. The SL students are required to have completed 40 hrs of laboratory investigations by the end of the 2nd year.

All the standards set by IB are strictly followed, for a successful completion of the program.

IB Physics HL I / IB Physics HL II

Prerequisite: Highly successful in Physics I, Geometry, Algebra II

Length: Two Years

Credit: One full credit per year

Description: IB Physics HL is the second of the two-year sequence. Building upon topics covered in the SL course. The topics include motion in fields, thermodynamics, wave phenomenon, electromagnetism, quantum physics, and digital technology. HL students are required to have completed 60 hrs of laboratory investigations by the end of the 2 years. All the standards set by IB are strictly followed, for a successful completion of the program. Mathematical competence is essential for success in this course, although it is not essential to be enrolled in calculus or HL math courses.

Environmental Science

Prerequisite: Nil

Length: One Year

Credit: One full credit

Description: In this course, students explore issues in population studies, environmental pollution, and the organization and dynamics of ecological communities. Specific topics include scientific habits of the mind; the application of scientific knowledge, methodology, and historical context to solve problems; the use of laboratory technologies; earth dynamics; the influence of technology on environmental quality; conservation practices; biodiversity; environmental planning and waste management; environmental monitoring and policy; sustainable use of public land; characteristics of populations; biotic and abiotic environmental factors; and energy production technologies.

World Languages Department

French I or Spanish I

Prerequisite: None

Length: One Year

Credit: One full credit

Description: This course is an introduction to the study of either French or Spanish and its culture. The emphasis is placed upon the development of the four skills of listening, speaking, reading and writing within a given context extending outside of the classroom when possible. There is a general introduction to the culture, its products, perspectives and practices.

French II or Spanish II

Prerequisite: Successful completion of French I or Spanish I

Length: One Year

Credit: One full credit

Description: This course provides students with opportunities to continue the development of their core skills and to participate in simple conversational situations. Students are able to interact on issues of everyday life and to compose related sentences, which narrate, describe and summarize familiar topics. Focus is placed on understanding main ideas.

French III or Spanish III

Prerequisite: Successful completion of French II or Spanish II

Length: One Year

Credit: One full credit

Description: This course allows students to expand their core skills as they create with the language and become familiar with short literary texts, authentic materials and various forms of media. Students satisfy limited communication and social interaction demands. They identify the main ideas and significant details in discussions, presentations and written texts.

French IV or Spanish IV

Prerequisite: Successful completion of French III or Spanish III

Length: One Year

Credit: One full credit

Description: The focus is the revision and expansion of more complex grammar points such as full coverage of the present tense including all irregular verbs, the relationship between the imperfect and perfect tenses, the future tense and conditional. The topics covered include

introduced. A greater number of authentic materials are used, such as websites, magazines, and newspaper articles. The student is expected to complete a wider variety of written tasks than previously expected.

**IB French Ab I / IB French Ab II
IB Spanish Ab I / IB Spanish Ab II**

Prerequisite: No more than two years of French or Spanish study

Length: Two Years

Credit: One full credit per year

Description: This course provides an opportunity for students to study the language at a beginning level. The course focuses on spoken interaction, using a whole range of Spanish resources and texts as a stimulus for discussion. The four core listening, speaking, reading and writing skills are developed.

**IB French B SL I / IB French B SL II
IB Spanish B SL I / IB Spanish B SL II**

Prerequisite: Successful completion of either French III or Spanish III

Length: Two Years

Credit: One full credit per year

Description: This course is designed for students with some previous experience in the language. The main focus of the course is on language acquisition and development in the four core skills. Students develop through the study of a range of different written and spoken materials, which are related to the cultures of the language studied.

World Language Department – French And Spanish: World Language Pathways

Gr 6	Gr 7	Gr 8	Gr 9	Gr 10	Gr 11	Gr 12
Language B	Language 2	Language 3	Language 4	Language 5	IB Language B (HL)	IB Language B (HL)
Language A	Language B	Language 2	Language 3	Language 4	IB Language B (HL)	IB Language B (HL)
	Language A	Language B	Language 2	Language 3	IB Language B (HL)	IB Language B (HL)
		Language 1	Language 2	Language 3	IB Language B (SL)	IB Language B (SL)
			Language 1	Language 2	IB Ab Initio (SL)	IB Ab Initio (SL)
				Language 1	IB Ab Initio (SL)	IB Ab Initio (SL)

+ Only HS courses completed in Grade 8 will gain HS credit.

80% must be achieved in Middle School language classes to gain credit (Grade 8) or to move to the next level.

relations with family and friends, travel, weekend activities, meals and food, free time and entertainment, getting around by car. Some literature will also be

**IB French B HL I / IB French B HL II
IB Spanish B HL I / IB Spanish B HL II**

Prerequisite: Successful completion of either French IV or Spanish IV

Length: Two Years

Credit: One full credit per year

Description: This course is designed for students with extensive experience in the language. This higher-level course differs in that students are exposed to a larger variety of texts and are expected to write in more depth with a wider breadth of language. The overall objective of this course is for students to achieve communicative competence in a wide range of situations.

Math Department

Algebra I

Prerequisite: Successful completion of Pre-algebra course

Length: One Year

Credit: One full credit per year

Description: In this course a solid foundation of the basic concepts of Algebra is achieved through the study of linear and quadratic functions, solving and graphing linear inequalities, solving simultaneous equations, expanding and factoring polynomials and simplifying rational and irrational expressions.

Geometry

Prerequisite: Successful completion of Algebra I

Length: One Year

Credit: One full credit per year

Description: This course is essential for further High School mathematics study. Students develop logical thinking skills by engaging in deductive and inductive reasoning. Topics of this course include theorems and postulates of Euclidean Geometry related to triangles, quadrilaterals, circles, parallel and perpendicular lines and solids. The contents of this course also include the basics of Trigonometry.

Algebra II - Trigonometry

Prerequisite: Successful completion of Geometry

Length: One Year

Credit: One full credit per year

Description: This is a fast-paced demanding course that covers a range of skills in the areas of Algebra and Trigonometry to prepare students with the foundation needed for IB Math SL and HL courses. Topics of this course include polynomial, modulus, rational, exponential and logarithmic functions, transformations, operations and composition of functions, logarithmic and exponential inequalities, factoring and simplifying rational expressions, complex numbers and the use of matrices to solve simultaneous equations. The Trigonometry section of this course include trigonometric ratios and identities, angles, arcs and

sectors, the laws of sines and cosines and graphs of the basic ratios.

IB Math Studies I (NC) / IB Math Studies II (NC) IB Math Studies SL I / IB Math Studies SL II

Prerequisite: Success completion of Geometry

Length: Two Years

Credit: One full credit per year

Description: IB Math Studies is designed to provide students of varied backgrounds and abilities with a realistic course that provides the skills to cope with the demands made by a technological society. It is not intended to develop techniques to the same depth as IB Math SL, and students who may require mathematics in the pursuit of further qualifications or in future careers are advised to consider a different IB Math course. Compulsory topics include number and algebra, sets and logic, geometry and trigonometry, statistics and probability, functions, and financial mathematics and an introduction to differential calculus. Part of the IB assessment for this course requires the completion of a mathematics project during the second year of study. Appropriate use of the TI-83 plus graphing calculator will be emphasized throughout the course.

IB Math SL I / IB Math SL II

Prerequisite: Successful completion of Algebra II

Length: Two Years

Credit: One full credit per year

Descriptions: This course is suitable for students who already possess a solid foundation of functions and trigonometry. The majority of these students are expected to need a sound mathematical background in their future studies. Algebraic concepts are studied in more detail and extended to differential and integral calculus. In addition to Functions, Algebra and Calculus, the IB Math SL topics include circular functions and trigonometry, matrices, vector geometry, statistics and probability. Students will use technology throughout the course, integrating it with their learning and practice. A graphing calculator approved by the IB organization is required.

IB Math HL I / IB Math HL II

Prerequisite: Successful completion of Algebra II

Length: Two Years

Credit: One full credit per year

Description: IB Higher Level Math is a rigorous course suitable for those students with very good mathematical ability who intend to include mathematics as a major component of their university studies. The seven core topics studied over the two-year program include: algebra, functions and equations: trigonometry, vectors, matrices, statistics and probability, and calculus. The additional topic that HL students will be required to study is statistics and probability. Each topic includes concepts typically covered during the first year in

college. This course is clearly a demanding one, requiring students to study a broad range of concepts through a number of different approaches and to varying degrees of depth.

Performing Arts Department

Drama I

Prerequisite: None

Length: One Year repeatable course. Students may exit and enter at semester

Credit: One full credit per year or 0.5 credits per semester.

Description: The purpose of this yearlong repeatable course is to help students develop their acting skills by participating in theatre games, improvisations, scenes, monologues and productions. Students will be required to attend extra scheduled rehearsals prior to a major production.

Jazz Band

Prerequisite: Must be in Symphonic Band or Symphonic Gold. Entry at Director's discretion

Length: One Year repeatable course. Students may exit and enter at semester.

Credit: One full credit or 0.5 credit per semester)

Description: Jazz Band is a full year performance course opened up to any Symphonic Band or Music Appreciation students who wish to broaden their musical skills in a jazz ensemble setting. Throughout this course, emphasis is placed on jazz history, the concept and theories of jazz ensemble, and jazz performance. Music theory and how it relates to jazz improvisation is also both studied and practiced. Lastly, listening skills using traditional jazz artists and the contemporary idiom are strongly enforced.

Symphonic Band

Prerequisite: Nil

Length: One Year (repeatable course)

Credit: One full credit

Description: High school instrumental music continues to build on the comprehensive music education students have received in middle school instrumental music. Students will have the opportunity to develop and demonstrate appropriately beginning and intermediate instrumental practices and play with refined technical accuracy and expression.

Symphonic Gold

Prerequisite: Admission by Director's approval

Length: One Year (repeatable course)

Credit: One full credit

Description: High school instrumental music continues to build on the comprehensive music education students have received in middle school instrumental music

and/or symphonic band. Students will have the opportunity to develop and demonstrate appropriately advanced instrumental practices and play with highly refined technical accuracy and expression.

IB Music SLG I

Prerequisite: HS Symphonic Band, HS Symphonic Gold

Length: Completion in one year (IB Testing in May)

Credit: One full credit

Description: IB Music SLG is a challenging and rewarding course, with both internal and external assessment that focuses on group performance, music investigation and music history. Students who belong to Symphonic Band in the High School can use performances with this group as their performance component of the IB at Standard Level.

This course is designed to expand the student's knowledge and appreciation of music through regular performances and study and analysis of western and nonwestern (world) music. Students will then be expected to apply this knowledge and appreciation to their study of major instrumental and choral works and performances. They will also be expected to perform regularly a wide variety of musical styles at concerts with the Symphonic Band or Symphonic Gold. Finally, students will be encouraged to inspire, tutor and set an example for younger students.

Visual Arts Department

Art Foundation I

Prerequisite: None

Length: One Year

Credit: One full credit

Description: This is a basic survey course that provides a foundation for all other visual art classes. Students will explore a range of two and three-dimensional media. They will do printmaking, drawing, painting and sculpture/pottery. Students will also have opportunities to experiment with and explore new media. The elements (color, form, value, shape, texture and space) and principles (rhythm, balance, unity, emphasis, contrast, pattern/repetition and movement) of design will be practiced and reinforced in the student work. Art theory, creative problem solving and interesting examples from art history will be woven into production work.

Art Foundation II

Prerequisite: Successful completion of Art I

Length: One Year

Credit: One full credit

Description: This is a one-year course designed to further the skills and experiences gained in previous art courses and for students working towards the IB Visual Arts diploma program. Students are encouraged to use a wide

variety of media and techniques. The aim is for students to develop their technical ability and broaden their artistic experience to help them grow in their self-confidence, creativity and artistic knowledge. The student will have discovered in the previous course where their interests and strengths are and will be able to build upon these as well as try new materials and ways of working individually and in teams. Students will be encouraged to use their own creativity and imaginative ideas to create much larger and mature pieces of art that express their own ideas and thoughts. They will also be required to have a sketchbook for them to document their research, own ideas and the processes.

IB Art SL I / IB Art SL II

IB Art HL I / IB Art HL II

Prerequisite: Successful completion of Art I and II

Length: Two Years

Credit: One full credit per year

Description: This course enables students to discover, develop and enjoy a means of creative visual expression suited to their temperament and capabilities. The course encourages individual experimentation and persistent endeavor. Students develop a lively, inquiring and informed attitude towards art in all its forms. A critical appreciation of their own work and the work of others is an important part of the course. Grading for the studio work is based on imaginative and creative thinking and expression, technical skill, persistence in research, understanding of chosen media, understanding of design and an ability to evaluate growth and development. Grading of the investigation workbooks is based upon independent research and critical appreciation. Studio work and the investigation workbook should be linked. Students are expected to make personal trips to art galleries and keep a record of these visits in their investigation workbook. Students undertaking the HL course will be expected to include art as a major component of their university studies.

Health And Physical Education Department

HPE I / HPE II

Prerequisite: None

Length: One Year each

Credit: One full credit per year

Description: AISL integrates both Health and Physical education into the HPE courses. AISL believes that participation in Physical Education is an essential part of each student's overall education. The Physical Education (PE) teacher provides a sequential program of motor skill development and sport knowledge in a variety of settings that address students' needs and potential. The program strives to increase personal fitness while at the same time encouraging students to become life-long participants in physical activity.

In grades 9 and 10, the program prepares students to be self-committed to physical education through the participation in a wide range of activities and sports as well as with the introduction of standardized fitness assessment. Acquisition of knowledge goes beyond rules and regulations to include sport-specific fitness, tactics and strategies, as well as officiating and etiquette. While skill development and team play is assessed, the major focus in all units is attitude, participation and effort. Opportunities are provided for students to develop their cooperation and communication skills. Finally, students are empowered to improve their individual fitness.

Health is a compulsory element of the HPE course. Health classes are designed to provide students with the tools for making health-enhancing decisions. Students work to understand the impact of health issues on their wellbeing and others. Through the development of critical thinking skills, students are also introduced to and made aware of health issues that affect various people around the world.

Self Defense I

Prerequisite: None

Length: One Year (Students may enter and exit this course at semester)

Credit: One full credit per year (0.5 credit per semester)

Description: This class will cover the basic principles of martial arts and key concepts in self-defense. Students will cover all the material required to advance in the martial arts ranks, however, attempting to advance in rank through the testing system is optional.

Health is a compulsory element of the Self Defense course. Health classes are designed to provide students with the tools for making health-enhancing decisions. Students work to understand the impact of health issues on their wellbeing and others. Through the development of critical thinking skills, students are also introduced to and made aware of health issues that affect various people around the world.

Personal Fitness and Conditioning I

Prerequisite: None

Length: One Year (Students may enter and exit this course at semester)

Credit: One full credit per year (0.5 credit per semester)

Description: This class covers the various aspects of fitness training and conditioning. Students will increase their fitness levels through a variety of training methods. Students will be expected to design their own training program that will meet their personal fitness goals.

Health is a compulsory element of the Personal Fitness and Conditioning course. Health classes are designed to

provide students with the tools for making health-enhancing decisions. Students work to understand the impact of health issues on their wellbeing and others. Through the development of critical thinking skills, students are also introduced to and made aware of health issues that affect various people around the world.

Additional Courses

SAT Preparation (Grade 10)

Prerequisite: None

Length: One Quarter

Credit: No HS credit

Description: This course is designed for students preparing to take the SAT for admission to an American university. Students will prepare for all three sections of the SAT: critical reading, math, and writing. Students will work on the language skills needed to succeed and on improving test-taking strategies to help increase their scores. Work on the math section will focus on English vocabulary on the test, which will lead to a greater understanding of what the question is asking and not on math instruction. This is an intensive exam-preparation course and students will be required to do regular homework assignments. Note: Before selecting this course, students should check whether the colleges they are applying to require that they take the SAT.

TOK I / TOK II (Theory of Knowledge I and II)

Prerequisite: None

Length: Two Semesters (2nd Sem Junior / 1st Sem Senior)

Credit: One half credit per semester

Description: Theory of Knowledge is designed to call upon reason and foster the knower and the information that he / she has obtained throughout the course of his / her lifetime. This course puts the student in control of knowledge acquisition. Furthermore, the student is expected to justify personal belief systems with concrete knowledge using analytical and critical thought as the course progresses. Focus is placed upon the Four Ways of Knowing: Language, Perception, Reason and Emotion and the Six Areas of Knowing: The Arts, Human Sciences, Natural Sciences, Mathematics, Ethics and History.

An internal assessment consisting of a major oral presentation takes place towards the end of the semester, and later submitted to IBO for moderation. Students are asked to engage in complex forms of critical thinking, writing, oral presentations, dialogue and discussions. An external assessment consisting of a 1500 – 2000 word essay is completed towards the end of the semester and submitted to IBO for grading. Successful completion of the TOK internal and external assessments will allow students to fulfill a critical piece of their IB Diploma requirements.

*Compiled by the
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