

# ASSUMPTION COLLEGE CATHOLIC HIGH SCHOOL



## International Baccalaureate Programme Academic Course Calendar

### SCHOOL MISSION STATEMENT

*As the learning community of Assumption College Catholic High School, building on a tradition of “Goodness, Discipline and Knowledge”, we are called to nurture and celebrate our gifts and talents, to grow in the service of others, and to develop our relationship with God.*



### MESSAGE FROM PRINCIPAL

This booklet provides information about the programs available to the students of Assumption College Catholic High School.

We strive to maintain our tradition of academic excellence by providing a broad range of courses to prepare students for their future.

Assumption students have the opportunity to develop themselves intellectually, spiritually, culturally, socially and physically through our academic and co-curricular programs.

It is our hope that each student at Assumption will understand the powerful meaning of our school motto: Teach me Goodness, Discipline and Knowledge.

Sincerely,

Mr. Joseph Ibrahim  
Principal

ACS Phone	(519) 256-7801
ACS Fax	(519) 256-0417
ACS Attendance	(519) 256-2338
ACS web address	<a href="http://www.wecdsb.on.ca/101">www.wecdsb.on.ca/101</a>
IB web address	<a href="http://www.ibo.org">www.ibo.org</a>
International Baccalaureate Coordinator	Genevieve Cano (519) 256-7801 x 278



## ***Mission Statement of the International Baccalaureate Organization***

*“The International Baccalaureate Organization aims to develop inquiring, knowledgeable and caring young people who help to create a better more peaceful world through intercultural understanding and respect.*

*To this end the IBO works with schools, governments and international organizations to develop challenging programmes of international education and rigorous assessment.*

*These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people with their differences can also be right.”*

# TABLE OF CONTENTS

Mission Statement of the International Baccalaureate Organization ....	1
Table of Contents.....	2
Requirements for the Ontario Secondary School Diploma .....	3
Community Involvement Requirements .....	3
Ontario Secondary School Literacy Test.....	4
Full Disclosure.....	4
International Baccalaureate Programme .....	5
Subject Groups.....	5
Admission Requirements .....	5
Subject Continuum Chart .....	6
Course Descriptions – International Programme .....	7
International Programme - Grade 9 .....	7
International Programme - Grade 10 .....	9
Course Descriptions – International Baccalaureate Programme .....	12
International Baccalaureate Programme - Grade 11 .....	12
International Baccalaureate Programme - Grade 12 .....	14

# **Requirements for the Ontario Secondary School Diploma (OSSD)**

In order to earn an Ontario Secondary School Diploma (OSSD) a student must:

- Earn 30 credits (18 compulsory and 12 optional credits),
- Complete 40 hours of community involvement activities,
- Meet the provincial secondary school literacy diploma requirement through successful completion of the Ontario Secondary School Literacy Test, Ontario Secondary School Literacy Course or adjudication process.

## **Compulsory Credits**

Students must earn the following 18 compulsory credits in order to obtain the OSSD:

- 4 English credits (1 credit per grade)
- 3 Mathematics credits (at least 1 credit in Grade 11 or 12)
- 2 Science credits
- 1 Canadian History credit
- 1 Canadian Geography credit
- 1 Arts credit
- 1 Health and Physical Education credit
- 1 French as a second language credit
- .05 Career Studies credit
- .05 Civics credit

## **Plus:**

**Group 1:** 1 additional credit in English, or a third language, or Social Sciences and the Humanities or Canadian and World Studies, or Guidance and Career or Co-operative Education\*

**Group 2:** 1 additional credit in Health and Physical Education, or the Arts, or Business Studies, or Co-operative Education\*

**Group 3:** 1 additional credit in Science (Grade 11 or 12) or Technological Education, or Co-operative Education\*

## **Optional credits**

In addition to the compulsory credits, students must earn 12 optional credits selected from the courses listed as available in the school course calendar.

*\*A maximum of 2 credits in Co-operative can count as compulsory credits.*

## **Community Involvement Requirements and Procedures**

Students must complete a minimum of 40 hours of community involvement activities during their years in the secondary school program. This requirement is to be completed outside the student's normal instructional hours and in a variety of settings. Student may not complete the hours through activities that are counted towards a credit, through paid work or by assuming duties normally performed by a paid employee.

Parents and students play a major role in this initiative. Organizations or persons supervising the activities must confirm completion of the 40 hours. Documentation attesting to the completion of each activity must be submitted. This documentation must include for each activity, the name of the person or organization receiving the service, the activity performed, the dates and hours, signatures of the student and his or her parents and a signed acknowledgement by the person (or representative of the organization) involved. For a complete local listing of agencies that welcome high school volunteers, check the bulletin board in the guidance office or the United Way web site ([www.weareunited.com](http://www.weareunited.com)).

## **Ontario Secondary School Literacy Test**

All students who entered Grade 9 in the 2000 - 2001 school year or in subsequent years must successfully complete the provincial secondary school literacy test in order to earn a secondary school diploma. Students will normally be administered the literacy test when they are in Grade 10. The test is based on Ontario curriculum expectations for language and communication, particularly reading and writing, up to and including Grade 9.

The test will identify areas for remediation for students who are unsuccessful in completing the test. Students who write the test but do not succeed must re-take the test and complete it successfully in order to qualify for a secondary school diploma. There is no limit to the number of times the test may be re-taken.

## **Full Disclosure for Grades 11 and 12**

The Ministry of Education has a policy of full disclosure. This policy states that all Grade 11 and 12 courses attempted by students must be recorded on Ontario Student Transcripts. Full disclosure does not apply to students in Grades 9 or 10. Any Grade 11 or 12 course completed, dropped or failed will appear on a student transcript along with the marks earned in the program.

Full disclosure will take effect after 5 instructional days following the issue of the first provincial report card for single or multiple credit courses.

## **Course Offerings through Other Means**

The options available to students who wish to consider alternative methods for earning credits to enrolling in courses offered in their secondary school include:

### **E-Learning: Online Courses**

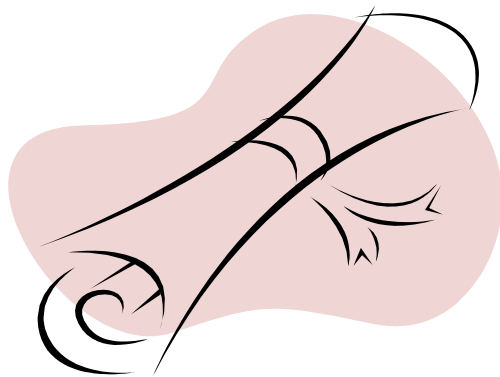
E-Learning is a program delivery model that provides students with an opportunity to earn secondary school credits online. See your guidance counsellor or visit <http://www.wecdsb.on.ca> then click on e-Learning for additional information.

### **Correspondence Courses**

In special circumstances, individuals may work independently on achieving credit courses towards the secondary school diploma. Contact your guidance counsellor for information on correspondence courses.

### **Dual Credits**

Dual Credits are courses that have curriculum aligned with specified college courses. Students successfully completing a Dual Credit course, as well as, a standardized assessment will receive both the secondary school credit and the specified college credit. Contact your guidance counsellor for additional information.



# International Baccalaureate Programme

The International Baccalaureate (IB) Diploma Programme is an internationally recognized two year programme which provides a rigorous and academically demanding curriculum for highly motivated, socially conscious senior high school students who are university bound. All IB diplomas are awarded by the Geneva based International Baccalaureate Office, to students who satisfy the requirements.

The IB Diploma programme has six major academic areas (see below) as well as:

- a) a course in Theory of Knowledge;
- b) the Extended Essay;
- c) the Creativity, Action, Service requirement.

Diploma candidates are required to select **one subject from each of the six subject groups**. **Three of the six courses are taken at the higher level (HL)**, and **three at the standard level (SL)**. HL courses represent 240 teaching hours, SL courses cover 150 hours.

## Subjects Available for the IB Diploma

Diploma candidates at Assumption College School are required to make selections from the following six groups of subjects:

### **Group 1: Language A**

HL English

### **Group 4: Experimental Sciences**

SL/HL Chemistry

SL/HL Biology

### **Group 2: Language B**

SL French

### **Group 5: Mathematics**

SL Mathematics

SL Math Studies

### **Group 3: Individuals and Societies**

HL History of the Americas

SL Business

### **Group 6: Optional Area**

SL Visual Arts

SL Music

In order to receive the International Baccalaureate Diploma a student must:

- ✓ Successfully write IB examinations in six subject areas;
- ✓ Successfully complete the Theory of Knowledge course;
- ✓ Successfully write an Extended Essay, which is defined as an in-depth study of a limited topic within a subject;
- ✓ Complete the Creativity, Action, Service requirement.

Assumption College Catholic High School offers this programme in addition to the Ontario Secondary School Diploma. OSSD requirements and courses are integrated with the International Baccalaureate requirements so that upon successful completion of the programme, a student is awarded both the IB diploma and the Ontario Secondary School Diploma.

Students who wish to take IB courses in the final two years of secondary school must apply for admission when registering for high school (grade nine). Students are required to carefully plan their schedules in grades nine and ten so that they have the prerequisites to participate successfully in the International Baccalaureate Programme in grades eleven and twelve.

## Admission Requirements:

- ✓ Highly motivated students who have marks of 70 % or higher in each subject will be considered for enrolment in first year of secondary school.
- ✓ Completed application package must be submitted to the IB Coordinator at the end of January for admission in September of the same year
- ✓ Admission for students from other secondary schools will be considered on an individual basis as space permits.



## International Baccalaureate Subject Continuum Assumption College Catholic High School

		International Programme		International Baccalaureate Programme	
		Grade 9	Grade 10	Grade 11	Grade 12
<b>Catholic School Requirement</b>	<i>Religious Education</i>	HRE1OG	HRT3MG		
<b>Core IB requirement</b>	<i>Theory of Knowledge</i>				HZT4UJ
<b>Group 1</b>	<i>English (IB/HL)</i>	ENG1DG	ENG2DG	ENG3UH ENG4UH	ETS4UH
<b>Group 2</b>	<i>French (IB/SL)</i>	FSF1DG	FSF2DG	FSF3US	FSF4US
<b>Group 3</b>	<i>History (IB/HL)</i>	CGC1D0	CHC2DG	CHA3UH CHI4UH	CHY4UH
	<i>Business (IB/SL)</i>			BAF3MS	BOH4MS
<b>Group 4</b>	<i>Chemistry (IB/HL)</i>	SNC1DG	SNC2DG	SCH3UJ	SCH4UH SES4UH
	<i>Chemistry (IB/SL)</i>	SNC1DG	SNC2DG	SCH3UJ	SCH4US
	<i>Biology (IB/HL)</i>	SNC1DG	SNC2DG	SBI3UJ	SBI4UH PSE4UH
	<i>Biology (IB/SL)</i>	SNC1DG	SNC2DG	SBI3UJ	SBI4US
<b>Group 5</b>	<i>Mathematics (IB/SL)</i>	MPM1DG	MPM2DG MCR3UG	MHF4UJ	MCV4UJ
	<i>Math Studies (IB/SL)</i>	MPM1DG	MPM2DG MCR3US	MDM4US	MHF4US
<b>Group 6</b>					
<b>Optional</b>	<i>Visual Arts (IB/SL) or Music (IB/SL)</i>	AVI1OG or AMU1OG	AVI2OG or AMU2OG	AVI3MS or AMU3MS	AVI4MS or AMU4MS
<b>OSSD Requirements</b>	<i>Physical Education</i>	PPL1OF/M			
	<i>Careers &amp; Civics Or Physics</i>		CHV2O0/ GLC2O0 or SPH3U1		

Please note: *SPH4U1* can be taken as an “e learning” course or during summer school if available.  
\*\*\*\*\*All Core and IB course offerings are subject to change depending upon student numbers and availability.

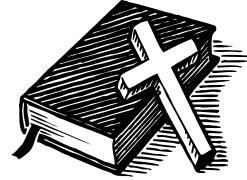
# ASSUMPTION COLLEGE CATHOLIC HIGH SCHOOL

## International Baccalaureate

### COURSE DESCRIPTIONS

## International Programme

### Grade 9



#### Catholic School Requirement

##### **HRE10G Religious Education: Be With Me /Christ and Culture**

This course invites students to a deeper understanding of both the joy and the demands of following in the way of Christ and living out the call to discipleship as it is described in the Scriptures. Using the Beatitudes as a touchstone, students examine the attitudes and actions that characterize the Christian life. Students will explore a variety of topics related to the themes of personhood, interpersonal relationships and sexuality. They are encouraged to understand and nurture within themselves the virtues, which will enable them to deepen their relationship with God in and through Christ in the context of a Spirit-filled community.

#### Group 1

##### **ENG1DG English, Academic**

This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication.

#### Group 2

##### **FSF1DG French, Academic**

This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, trends, and careers. Thematic readings, which include a selection of short stories, articles, and poems, will serve as stepping-stones to oral and written activities. Gospel values are integrated through prayer and reflection, giving witness, liturgy and Para liturgy, and curriculum and community resources.

#### Group 3

##### **CGC1D0 Geography of Canada, Academic**

This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geo-technologies, inquiry and communication methods to analyze and evaluate geographic issues and present their findings.

#### Group 4



##### **SNC1DG Science, Academic**

This course enables students to understand essential concepts in biology, chemistry, earth and space science, and physics and to develop skills in the processes of scientific inquiry. Students will learn about scientific theories and pursue inquiries related to ecology and sustainable ecosystems, atomic and molecular structures, properties of elements and compounds, the universe and space exploration, and the principles of static and current electricity. Students will reflect on their own faith journey and the teachings of Christ in exploring scientific issues and problems; and relate science knowledge to technological, social, and environmental knowledge.

## Group 5

### **MPM1DG Mathematics, Academic**

This course enables students to develop understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a relationship. They will also explore relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Learning through abstract reasoning is an important aspect of this course.

## Group 6



### **AVI10G Visual Art, Academic**

This course emphasizes learning through practice building on what students know and introducing them to new ideas, materials, and processes for artistic thinking and experimentation. Student learning will include the refined application of the elements and principles of design, incorporating the creative and design processes, and the relationship between form and content. Students also will learn about the connections between works of art and their historical contexts. Course objectives will be achieved through the study of a variety of mediums such as drawing, painting, printmaking, clay and 3D design.

### **AMU10G Music, Instrumental**

This course emphasizes the performance of music at a level that strikes a balance between challenge and skill and is aimed at developing technique, sensitivity, and imagination. In addition to learning an instrument, students will be given the opportunity to explore and enjoy the diversity of music throughout the world by enabling them to creatively develop their knowledge, abilities, and understanding through performance and analysis of music. Students will be expected to demonstrate their understanding of music by performing, by using appropriate musical language and terminology in analyzing musical works from many and varied cultures and periods. This course accommodates beginners as well as students with prior learning in music.



## OSSD Requirement

### **PPL10F (Female) / PPL10M (Male) Health and Physical Education**

In this course students will learn movement skills and principles, ways to improve personal fitness, physical competence and safety/injury prevention. They will be provided an opportunity to investigate issues related to healthy sexuality, and drug abuse (including tobacco and alcohol), presented in a manner consistent with our mission as a Catholic community. Students will participate in activities designed to encourage goal setting, promote community building, and to develop social skills. This course emphasizes students' daily participation in a variety of enjoyable physical activities that promote lifelong healthy active living, encourage respect for the dignity and welfare of self and others, and promote the living of gospel values.



## Grade 10

### Catholic School Requirement

#### HRT3MG World Religions: Beliefs, Issues, and Religious Traditions

This course enables students to discover what others believe and how they live, and to appreciate their own unique heritage. Students will learn about the teachings and traditions of a variety of religions, the connections between religion and the development of civilizations, the place and function of religion in human experience, and the influence of a broad range of religions on contemporary society. This course also introduces students to skills used in researching and investigating world religions.

Prerequisite: HRE10G

### Group 1

#### ENG2DG English, Academic

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

Prerequisite: ENG1DG

### Group 2

#### FSF2DG French, Academic

This course enables students to increase their knowledge of the French language, further develop their language skills, and deepen their understanding and appreciation of francophone culture around the world. Exploring a variety of themes, students will develop and apply critical thinking skills in discussion, in their analysis and interpretation of texts, and in their own writing.

Prerequisite: FSF1DG



Sir John A. Macdonald

### Group 3

#### CHC2DG Canadian History in the 20<sup>th</sup> Century, Academic

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period, and to present their own points of view.

Prerequisite: CHC1D0



### Group 4

#### SNC2DG Science, Academic

This course enables students to develop a deeper understanding of concepts in ecology, chemistry, physics of light and climate change; to develop further their skills in scientific inquiry; and to understand the interrelationships among science, technology, and the environment. Students will conduct investigations and understand scientific theories related to: chemical reactions, with particular attention to acid-base reactions; factors that influence climate change; and properties of light, mirrors and lenses.

Prerequisite: SNC1DG



## Group 5

### **MPM2DG Mathematics, Academic**

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relationships and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically as they solve multi-step problems and communicate their thinking.

Prerequisite: MPM1DG

### **MCR3UG Mathematics Functions, Academic**

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Students successful in this math intensive course will be properly prepared for the IB Math SL program. Prerequisite: MPM2DG

### **MCR3US Mathematics Functions, Academic**

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Students successful in this math course will be properly prepared for the IB Math Studies program.

Prerequisite: MPM2DG



## Group 6

### **AVI2OG Visual Arts**

This course is a continuation of AVI 1DO. It provides students with opportunities to further develop their skills and knowledge in visual art. Students will explore a range of subject matter through studio activities, and will consolidate their practical skills. Drawing, painting, printmaking, 3 dimensional study and design, including work with clay and plaster will be studied. Students will also analyze works and study aspects of Western art history, as well as art forms from Canada and other parts of the world. This course is recommended for students who wish to further develop their visual literacy and creative thinking and problem solving skills.

Prerequisite: AVI1OG

### **AMU2OG Music, Instrumental**

This course is a continuation of AMU1OG. It continues to emphasize the performance aspect of music, challenging the student to develop their individual skill and technique. They will continue to study different musical periods and styles and how it continues to shape our music today. Students will explore their own artistic abilities, as they will create their own musical compositions. This course will also help to develop their understanding of how music is created by using various computer programs. Prerequisite: AMU1OG



## Optional Courses

### **CHV2OG Civics**

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them.

### **GLC2OG Career Studies**

This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

### **SPH3U1 Physics, Academic**

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment. Prerequisite: SNC2DG

# International Baccalaureate Programme

## Grade 11



### Group 1

#### **ENG3UH English, Higher Level**

This course uses literature as a springboard to facilitate the learning that allows students to explore the powers of expression. Students will have the opportunity to explore the subtle differences of formulating arguments for different audiences. Along with developing their own arguments, students will learn to recognize the trends and mechanics of many critical works and use such scrutiny, once again, to devise their own opinions. The expression of opinions and ideas will be practiced in both written and oral form. Assessments include essays, oral and written commentaries, discussion and oral presentations.

Prerequisite: ENG2DG

#### **ENG4UH English, Higher Level**

This course continues to develop the skills fostered in ENG3UH. It encourages the development of an appreciation of literature and exposes students to written works from their own society and that of others. Students develop an ability to understand international perspectives towards certain roles in a variety of cultures and a broader comprehension of human thought. Students will read and analyze all genres of literature written in English and translated in English from other cultures. The expression of opinions and ideas will be practiced in both written and oral form. Assessments include essays, oral and written commentaries, discussion and oral presentations.

Prerequisite: ENG3UH



### Group 2

#### **FSF3US French, Standard Level**

This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of materials, including a short novel or a play. Students will produce various assignments. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

Prerequisite: FSF2DG

### Group 3

#### **CHA3UH History of the Americas, Higher Level**

This course traces the social, economic, and political development of the United States from colonial times to the present but will focus primarily on the events that transpired in the 20<sup>th</sup> century. Students will examine issues of diversity, identity, and culture that have influenced the country's social and political formation and will consider the implications of its expansion into a global superpower. Students will use critical-thinking and communication skills to determine causal relationships, evaluate multiple perspectives, and present their own points of view.

Prerequisite: CHC2DG

#### **CHI4UH Canadian History, Higher Level**

The 20<sup>th</sup> century produced many single-party states. The origins, ideology, form of government, and organization of these states will be studied in this course. Students will determine the impact of the different autocratic systems with regard to women, minority and religious groups, and political adversaries. They will examine how the governments used education, media, art and different forms of propaganda in order to secure and maintain power. The approach to this course will be thematic in its scope and will include countries from different regions of the world.

Prerequisite: CHA 3UH



**BAF3MS Business Leadership, Standard Level**

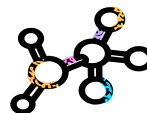
This course is the first part of the International Baccalaureate Business course, at the standard level. The first unit has eight sections and sets the foundation for further business studies. The second unit, with five sections, examines the critical elements of human resource management. The third unit has four sections and examines the principles of accounting and financial decision making. A fourth component, business strategy, is delivered throughout the course. All units take into account current business trends, the global business environment and ultimately helps students make wise business decisions.

Prerequisite: None

**Group 4****SCH3UG Chemistry**

The HL/SL Chemistry is designed as a comprehensive two-year curriculum that allows its graduates to fulfill requirements of the Grade 11 University and Grade 12 University program.. The objectives of the IB Chemistry are based on the International Baccalaureate Chemistry Prospectus. To meet these objectives specific material is covered over the period of three semesters (HL) or two semesters (SL). A collaborative Group 4 project is a compulsory part of IB Chemistry. This project emphasizes interdisciplinary cooperation and the processes involved in scientific investigation, rather than the products of such investigation. SCH3UH/S Chemistry will include: atomic theory and periodicity, bonding, chemical reactions, stoichiometry, equilibrium and gas laws. The course has an experimental aspect, and stresses qualitative modeling and quantitative analysis. IB Chemistry is a rigorous university preparation course for highly motivated students.

Prerequisite: SNC2DG

**SBI3UG Biology**

The HL/SL Biology is designed as a comprehensive two-year curriculum that allows its graduates to fulfill requirements of the Grade 11 University and Grade 12 University program. The Grade 11 program topics include: cells, diversity of living things, theoretical and molecular genetics, evolution, human systems and ecology. The Grade 12 topics include: energetics (cellular respiration and photosynthesis), plant science and human health and physiology. There is an internal assessment criterion that consists of 40-60 hours of investigative laboratory procedures and a group 4 project.

Prerequisite: SNC2DG

**Group 5****MHF4UG Mathematics: Advanced Functions Standard Level (Math SL)**

The central theme of this course is to extend students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Since this course is also the first half of the Math SL program, along with the theme of functions, topics unique to the Math SL program will be integrated. These may include matrices, introductory calculus concepts, statistics, vectors, and the introductory study of lines and planes.

Prerequisite: MCR3UG

**MDM4US Mathematics of Data Management Standard Level (Math Studies)**

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analyzing large amounts of information; solve problems involving probability and statistics. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest. This course is also the 1<sup>st</sup> half of the Math Studies (IB) program. Hence topics unique to this program will also be interconnected with the MDM4U core topics.

Prerequisite: MCR3US

## Group 6



### **AVI3MS Visual Arts, Standard Level**

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyze art forms; use theories of art in analyzing and producing art; increase their understanding of stylistic changes in modern and contemporary Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach. Prerequisite: AVI2OG

### **AMU3MS Music, Instrumental, Standard Level**

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analyzing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers. Prerequisite: Music, Grade 9 or 10, Open

## Grade 12



## Core IB Requirement

### **HZT4UG Theory of Knowledge, Standard Level**

Theory of Knowledge is an inter-disciplinary course, which seeks to examine, review, and challenge the origins and validity of various types of knowledge. The goal is to assist students in developing skills in critical thinking, detecting and analyzing bias, and presenting rational arguments. This course addresses three (or more) of the main areas of philosophy: metaphysics, logic, epistemology, ethics, political philosophy, and aesthetics. The course will also help students refine skills used in researching and investigating topics in philosophy. As a Catholic school, the infusion of gospel values into the curriculum particularly from an ethics standpoint will form a significant underpinning of the Theory of Knowledge course content.

## Group 1

### **ETS4UH English Literature, Higher Level**

This course continues the philosophy of the English A1 Programme in its objectives to develop techniques of literary criticism, to foster an appreciation of literature and a greater understanding of the human condition, and to stimulate critical thinking. Students continue to develop techniques to analyze literary passages drawn from prose and poetry, representative of a variety of historical periods. This course encourages students to be original, independent, critical and logical thinkers, and to appreciate literature as an art form. The expression of opinions and ideas will be practiced in both written and oral form. Assessments include essays, oral and written commentaries, discussion and oral presentations.

Prerequisite: ENG4UH

## Group 2

### **FSF4US French, Standard Level**

This course draws on a variety of themes to promote extensive development of French-language skills. Students will consolidate their oral skills as they discuss literature, culture and current issues. They will read a variety of texts and will write a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

Prerequisite: FSF3US

## Group 3

### **CHY4UH World History, Higher Level**

This course addresses East-West relations in the period 1960 to 1979. It focuses on the changing character of the Cold War and its impact in different areas of the world. Students will discover the challenges faced by those factions who advocated détente and peaceful coexistence and come to understand the dangers of fighting proxy wars around the globe. This course will examine the breakdown in Sino-Soviet relations as well as the relationship between eastern and western European powers. Ultimately, this course will allow students to discover the culture of fear, mistrust and strained relations that marked this tension-filled period of the 20<sup>th</sup> century.

Prerequisite: CHA3UH

### **BOH4MS Business, Standard Level**

This course is the second part of the International Baccalaureate Business course, at the standard level. The first unit has eight sections and focuses on the marketing mix. The second unit, with six sections, examines the critical elements of the production process. Topics such as production methods, costs, revenues, break-even analysis and production planning are examined in detail. The third unit, business decision making, puts the students in the shoes of a CEO and they look at case studies and must make recommendations. A fourth component, business strategy, is delivered throughout the course. All units take into account current business trends, the global business environment and ultimately helps students make wise business decisions.

Prerequisite: BAF3MS



## Group 4

### **SCH4UH Chemistry, Higher Level / SCH4US Chemistry, Standard Level**

The course is offered as a Higher Level (HL) or Standard Level (SL) IB course. The objectives of the HL/SL Chemistry are based on the International Baccalaureate Chemistry Prospectus. To meet these objectives specific material is covered over the period of three semesters. SCH4UH/S Chemistry will include further atomic theory and periodicity, bonding, equilibrium, redox, acids and bases studies, kinetics, thermo chemistry and organic chemistry. The course has an experimental aspect, and stresses qualitative modeling and quantitative analysis. Additionally two option topics from IB syllabus will be also covered. IB Chemistry is a rigorous university preparation course for highly motivated students.

Prerequisite: SCH3UH

### **SES4UH Chemistry, Higher Level**

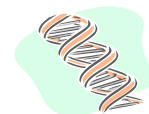
This is the second semester course of the Higher Level (HL) IB course. The objectives of the HL Chemistry are based on the International Baccalaureate Chemistry Prospectus. SES4UH Chemistry will include further organic chemistry studies, human biochemistry and drugs and medicine and/or other options from IB syllabus. The course has an experimental aspect, and stresses qualitative modeling and quantitative analysis.

Prerequisite: SCH4UH

**SBI4UH Biology, Higher Level / SBI4US Biology, Standard Level**

The SL Biology is a rigorous pre-university course of studies, leading to examinations that meet the needs of highly motivated secondary school students. Designed as a comprehensive two-year curriculum that allows its graduates to fulfill requirements of the Grade 11 University and Grade 12 University program. The Grade 12 program topics include: chemistry of life, photosynthesis, cell respiration, and human health and physiology. There is an internal assessment criteria that consists of 40 hours of investigative laboratory procedures and a group 4 project. Approximately 20 hours of internal assessment are completed at the grade 12 level. This course fulfills all Ontario Secondary School Diploma requirements.

Prerequisite: SBI 3UH

**PSE4UH Biology, Higher Level**

This is the second semester of the SBI 4UH Higher Level Biology course. The primary topics include: evolution, plant science, ecology and conservation. Students will examine factors in population ecology, plant reproduction, species and speciation. The course includes an experimental component that stresses data analysis and critical thinking.

Prerequisite: SBI4UH

**Group 5****MCV4UG Mathematics Calculus and Vectors Standard Level (Math SL)**

This course is the culmination of the Math SL program. It will build on the students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in 3-D; broaden their understanding of rates of change to include derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to modeling of real-world relationships. As part of the Math SL program the calculus component will be extended to include the study of definite and indefinite integrals.

Prerequisite: MHF4US

**MHF4US Mathematics: Advance Functions Standard Level (Math Studies)**

This course is the culmination of the Math Studies program. The central theme of this course is to extend students' experience with functions. Students will investigate the properties of polynomial, rational, exponential, and logarithmic function; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Since this course is also the last half of the math Studies program, along with the theme of functions, topics unique to the Math Studies program will be integrated. These may include sequences and series, and introductory calculus concepts.

Prerequisite: MCR 3US / MDM4US

**Group 6****AVI4MS Visual Arts, Standard Level**

This course will continue to develop the work begun in AVI 3MS. Students will analyze art forms; use theories of art in analyzing and producing art, increase their understanding of the theory and concepts in contemporary Western art, Canadian art and art forms from various parts of the world including art created by indigenous peoples. Non-traditional methods of art making will be emphasized. Students will produce a body of work demonstrating a personal approach. This work will culminate in an exhibition.

Prerequisite: AVI3MS

**AMU4MS Music, Instrumental, Standard Level**

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyze how to apply skills developed in music to their life and careers.

Prerequisite: AMU3MS



# IB LEARNER PROFILE



The IB Programme aims to develop internationally minded people who are striving to become:

- Inquirers** Their natural curiosity is nurtured. They acquire the skills necessary to conduct constructive inquiry and research, and become independent learners. They actively enjoy learning and this love of learning will be sustained throughout their lives.
- Knowledgeable** They explore concepts, ideas and issues, which have global relevance and importance. In so doing, they acquire, and are able to make use of a significant body of knowledge across a range of disciplines.
- Thinkers** They exercise initiative in applying thinking skills critically and creatively to approach complex problems and make reasoned decisions.
- Communicators** They understand and express ideas and information confidently and creatively in more than one language and in a variety of modes of communication.
- Risk-takers** They approach unfamiliar situations with confidence and forethought, and have the independence of spirit to explore new roles, ideas and strategies. They are courageous and articulate in defending their beliefs.
- Principled** They recognize universal human rights and morality. They have integrity, honesty, a sense of fairness and justice and respect for the dignity of the individual.
- Caring** They show empathy, compassion and respect towards the needs and feelings of others. They have a personal commitment to action and service to make a positive difference to the environment and to the lives of others.
- Open-minded** They understand and appreciate their own culture, and are open to the perspectives, values and traditions of other individuals and cultures. They are accustomed to seeking and considering a range of points of view.
- Well-balanced** They understand the importance of physical and mental balance and personal well being for themselves and others. They demonstrate perspective and self-discipline.
- Reflective** They give thoughtful consideration to their own learning and personal development. They are able to analyze their strengths and weaknesses in a constructive manner.