

INTERNATIONAL BACCALAUREATE



The International Baccalaureate Program is a comprehensive, internationally based program of studies which will appeal to motivated students who are intent on pursuing university studies. The International Baccalaureate (IB) Program offers challenges and experiences beyond the regular High School Diploma Program and provides the opportunity to prepare for post-secondary study in all major disciplines. Visit the IBO website at www.ibo.org for additional background information about the International Baccalaureate Organisation.

A successful student in the IB Program will demonstrate a strong commitment to learning, both in terms of the mastery of subject content and in the development of the skills and discipline necessary for success in a competitive world. Students will demonstrate high standards of participation and achievement in course work, along with involvement in extra-curricular activities and citizenship projects. They will benefit from study in the company of other interested and motivated students; the development of time and task management skills; local, national and international emphasis in curricular areas; the challenge of international competition; and university recognition. The foundation of the International Baccalaureate Program is preparation for success in post-secondary study.

The foundation of study in IB falls into the subject groups: Group 1 Language A: the study of English and World Literature; Group 2 Language B: the study of a second language; Group 3 Study of Man in Society; Group 4 Experimental Sciences; Group 5 Mathematics; Group 6 Arts or Electives including a second science. Assessment is ongoing and includes both internal and external assessment components in addition to final International Baccalaureate examinations in May of the Grade 12 year. Final IB marks, on a scale of 1 – 7, are granted from IBO after completion of all IB requirements at the end of Grade 12. Of note: students are assessed and awarded marks on an Alberta standard throughout the high school program and complete Alberta Diploma course requirements. Students completing IB courses will be awarded two distinct marks: one from Alberta Education on the Alberta standard, and one on the International Baccalaureate standard from IBO. Universities will consider both mark standards for entrance and scholarship purposes.

INTERNATIONAL BACCALAUREATE DIPLOMA requires three subjects at the Higher Level (English, History & Biology at BCHS), and three subjects at Standard Level (Chemistry, Mathematics, & either French or Japanese as a second language at BCHS), and the satisfactory completion of the requirements of an Extended Essay, Theory of Knowledge, and participation in Creativity, Action and Service (CAS).

INTERNATIONAL BACCALAUREATE CERTIFICATES are awarded to students who do not elect to complete the full Diploma Program, but complete one or more selected IB courses in combination with other regular high school courses. These candidates are not required to complete the IB Diploma requirements of an Extended Essay, Theory of Knowledge, and CAS.

During the two-year IB Program students are encouraged to consider study as Diploma candidates in a full IB Program to satisfy the requirements for the IB Diploma at the end of Grade 12. Students may also study as Certificate candidates in a Partial IB Program to earn IB subject Certificates at the end of Grade 12. In either situation students will complete the requirements for related Alberta course work in all subject areas.

Students initially enter the program as Grade 10 pre-IB students to work towards building the foundation for the IB course content and expectations in the IB Program for Grades 11 and 12. Students are encouraged to register for a Full Program in Grade 10 to allow for the best foundation for high school success, but may select only the Grade 10 Humanities or the Math/Science components. In all Grade 10 Pre-IB courses students will satisfy Alberta Education requirements. Students considering the IB Program should have a strong academic ability and be committed to a personal responsibility for a high level of achievement and participation in high school.

In all International Baccalaureate courses the IB curriculum and the Alberta curriculum will be interwoven throughout the courses taken from Grade 10 Pre-IB and the two-year IB Program in Grades 11 and 12. Students will satisfy the requirements of Alberta Education curriculum and receive the Alberta High School Diploma as well as the International Baccalaureate Diploma or Certification in specific courses. It should be noted that many IB courses will be unsemestered, which may not allow for students to include all option areas in their schedule. In addition, students who are considering a Full Diploma Program and will also require Physics (possible future interest in areas such as Engineering and Medicine) should select Physics 20 as an option in semester II of Grade 10. The alternative is to complete one or both of Physics 20 and Physics 30 through summer school, evening classes or On-Line.

INTERNATIONAL BACCALAUREATE PROGRAM ENTRY

GRADE 10 PRE-IB PROGRAM



Students can select to enter the Grade 10 Pre-IB program as a Full Program candidate, or as a Humanities candidate, or as a Math/Science candidate.

A Full Program Candidate will be enrolled in the following courses: English 10 IB, History 10 IB, Science 10 IB (includes the Physical and Biological Science components of Chemistry 15 IB and Biology 15 IB), Math 10 IB and either French 10 IB or Japanese 10 IB. Grade 10 students will also include Physical Education and some option time in their schedule. Grade 10 students in the Full Program may choose to remain as a Full Diploma Candidate in Grade 11 and 12. They may also elect to change into a Partial Program as a Certificate Candidate at either Grade 11 or 12 or return to regular program courses.

A Humanities Candidate will be enrolled in English 10 IB and History 10 IB in combination with the regular Alberta program Math 10, Science 10, Physical Education 10 and other chosen options. A second language should be considered as either an IB or regular program subject to ensure students will have prerequisites when they consider university entrance.

A Math/Science Candidate will be enrolled in Math 10 IB and Science 10 IB, which includes the Biology 15 IB and the Chemistry 15 IB components. These courses will be taken in combination with regular English 10, Social Studies 10, Physical Education 10 and other chosen options. A second language may be taken as an IB or regular program subject. Often Math/Science Candidates will select Physics 20 in Semester II.

Team Mentoring Project, a partnership within the Big Brothers Big Sisters High School Mentoring Program, is a component in the Humanities 10IB course. Students registered in either full program or the Humanities component will participate in the Mentoring Project. Many of the activities required for the project have a direct relationship to the English curriculum and the interaction with students of other nationalities and cultures enhances the global perspective examined in History.

Students and parents interested in the Grade 10 pre-IB program for the 2007-2008 school year will register for Small Group Information and Planning Sessions. The sessions are held in March after the BCHS and IB Open House Night. Registration for Small Group Sessions is available during Open House on March 8, or by contacting the IB Coordinator.

Note: Refer to page 25 for course descriptions for Grade 10 Pre-IB. A Pre-IB Handbook is available with more detailed information.

Note: Refer to pages 50 & 51 for course descriptions for Grade 11 & 12 IB. An IB Information Handbook is available with more detailed information about the IB Program.

BELLEROSE IB DIPLOMA PROGRAM OVERVIEW		
GRADE 10 PRE-IB PROGRAM	GRADE 11	GRADE 12
HUMANITIES 10 IB English 10 & Social Studies 10-1 Team Mentoring Project	English 20 IB & World Literature 35 IB	English 30 IB
	History 20 IB	History 30 IB & World History 30 IB
Math 10 IB Pure Math 10	Math 20 IB & Math 30 IB Pure Math 20 & Pure Math 30	Math 31 IB
Science 10 IB Science 10 plus Chemistry 15IB & Biology 15IB	Chemistry 20 IB	Chemistry 30 IB
	Biology 20 IB	Biology 30 IB
French 10 IB French 20 & French 10 Challenge	French 20 IB French 30 & 31A Challenge	French 30 IB French 31B
Japanese 10 IB Japanese 10	Japanese 20 IB Japanese 20	Japanese 30 IB Japanese 30
Physical Education 10 & CALM	Theory of Knowledge & Extended Essay	
Physics 20 & 30 or CTS or Fine Arts or other courses selected on individual preference		

PRE-IB GRADE 10 COURSE DESCRIPTION

HUMANITIES 10 IB (5 CREDITS FOR ENGLISH AND 5 CREDITS FOR SOCIAL STUDIES) includes the components and content for both Alberta English 10-1 and Social Studies 10. The content basis follows the Alberta curriculum and the assessment criterion is based on the Alberta standard of evaluation. Final marks will be assigned as English 10-1 for 5 credits and Social Studies 10 for 5 credits. The unsemestered organization of Humanities 10IB allows time for students to develop skills and knowledge over the entire year and provides the opportunity to enhance many of the curricular areas of both English 10-1 and Social Studies 10. Course work is designed to prepare students to study English and History at the higher level in the IB Program in Grades 11 and 12 and promotes the development of an appreciation and understanding of English and History as core disciplines, including the nature and diversity of sources, methods, and interpretations. Students will explore and interact with a wide range of materials, basic concepts, conventions and genres, with an emphasis on Canadian Literature and History. There is an emphasis on analysis, writing skills, and reading comprehension and students will develop the skills for strong written and oral presentations. Work in both subject areas will encourage critical thinking and an understanding of the events and people who have shaped modern Canada.

Our BCCHS **Team Mentoring Project**, a partnership within the Big Brothers Big Sisters High School Mentoring Program, is a component in the Humanities 10IB course. Many of the activities required for the Mentoring Project have a direct relationship to the English curriculum and the interaction with students of other nationalities and cultures enhances the global perspective examined in History.

Prerequisite: Honours in Grade 9 English and Social

MATHEMATICS 10 IB (5 CREDITS) is a semestered course and is identical to Pure Math 10. Both courses follow the same Alberta curriculum, access the same resources, and write a common final exam. Pure Math 10 includes topics on number patterns, polynomials, rational expressions and equations, relations and functions, coordinate geometry, measurement and trigonometry, and statistics and probability. Student groupings in Pure Math 10IB sections will generally maintain a higher level of thinking and application in relation to the study of math and will begin to investigate some limited vocabulary and minor extensions in coordinate geometry and statistics that will be part of IB Math in Grades 11 and 12.

Prerequisite: Honours in Grade 9 Math

FRENCH 10 IB (5 CREDITS FOR ALBERTA FRENCH 20) reviews and builds a solid foundation of French language skills in listening, speaking, reading and writing. Basic verb tenses, grammar, and vocabulary will be studied with a communicative approach. Students will be awarded a final mark and 5 credits for French 20 (Level 4, 5, etc.) and will have the opportunity to challenge French 10 for a final mark and an additional 5 credits.

Recommended Prerequisite: Junior High French Program

JAPANESE 10 IB (5 CREDITS) is designed for students with no previous experience in Japanese. There is a major focus on the study of the Japanese culture while learning the language. Students will access, on a weekly basis, a computer-assisted language lab and a variety of software. Listening, speaking and writing skills will be developed from the beginning.

Prerequisite: None

SCIENCE 10 IB (11 CREDITS) is a composite course including the regular Alberta Science 10 curriculum and the additional chemistry and biology topics required for the IB Chemistry and IB Biology in Grades 11 and 12. Science 10IB is taken over two semesters and includes the following components: **Semester I with Chemistry 15 IB** covers the regular physics and chemistry topics of Alberta Science 10 followed by an in-depth study of the chemistry of gases and solutions; **Semester II with Biology 15 IB** covers the biology component of Alberta Science 10 with the additional IB topics of classification, plant science, ecology and evolution. (5 credits in Science 10, 3 credits in Biology 15 IB and 3 credits in Chemistry 15 IB.)

Recommended Prerequisite: Honours in Grade 9 Science

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COURSE DESCRIPTIONS

ENGLISH 20 IB (5 CREDITS) Students embark on a voyage of discovery, exploring and interacting with a variety of works. They will be encouraged to focus their effort on their responses to the Literature and not to rely on secondary sources. This is a study of Literature from a variety of genres and periods and also includes a comparative study of World Literature in translation. **WORLD LITERATURE 35IB (3 CREDITS)** is taken in combination with English 20IB. The focus of this course is Latin American literature. Students will receive additional practice in the close reading and analysis of literature in translation. At the end of the course, students will write two papers that will be externally moderated by IBO and that comprise 20% of the final IB grade.

Prerequisite: Humanities 10 IB and recommendation of IB Department

ENGLISH 30 IB (5 CREDITS) Students continue the study of English and World Literature. In addition there is intensive study of a Shakespearean play, a selection of poetry, and the novel in society. IB English encompasses Internal and External Assessment in both written and oral formats, the IB Examinations, and the Alberta English 30 Diploma Exam.

Prerequisite: English 20 IB and recommendation of IB Department

HISTORY 20 IB (5 CREDITS) Course promotes the acquisition and understanding of an in-depth level of historical knowledge. Students will explore world history between 1600 and 1918 with specific emphasis on the impact of the European continent on the present, and will be expected to analyze and interpret the different approaches to historical events and topics. Students will develop a global awareness and understanding of people living in a various locations at different historical times. An emphasis is placed on developing the skills required to use and communicate socio-economic, historical, and political knowledge.

Prerequisite: Humanities 10 IB and recommendation of IB Department

HISTORY 30 IB (5 CREDITS) Course includes an in-depth historical understanding of the 20th and 21st centuries. Students will be expected to comprehend, analyze, and evaluate historical evidence. Students will be expected to explain different approaches to, and interpretations of events and topics in the 20th and 21st centuries. They will develop the skills necessary to explain the causes and effects of historical continuity and change. **WORLD**

HISTORY 30 IB (3 CREDITS) is taken in conjunction with History 30 IB and provides additional study within the IB curriculum. The course allows students to develop the skills necessary to plan, organize and present an individual historical investigation and promotes a lasting interest in World History. History 30 IB encompasses a Historical Investigation, IB Examinations, and the Alberta Social Studies 30 Diploma Exam.

Prerequisite: History 20 IB and recommendation of the IB Department

FRENCH 20 IB (5 CREDITS – FRENCH 30) This course continues to build the linguistic base of French 10 IB. Higher level skills will be developed, with cultural awareness and linguistic skills worked into the themes at a proficiency level of 7-8 of the Alberta Education curriculum. Students will have the opportunity to challenge French 31A. There is no Provincial Diploma Exam.

Prerequisite: French 10 IB and recommendation of the IB Department

FRENCH 30 IB (5 CREDITS – FRENCH 31B) This course focuses on the refinement of all language skills using authentic documents taken from newspapers, magazines, novels, media, and French literature. There will be extensive preparation for the oral and written components of the IB exam. No Provincial Diploma Exam.

Prerequisite: French 20 IB and recommendation of the IB Department

JAPANESE 20 IB (5 CREDITS) This course continues to develop competencies with the three Japanese alphabets. An emphasis is placed on reading, writing, speaking and listening skills. The more complex forms of Japanese script are introduced, and the Japanese society of today is studied in detail.

Prerequisite: Japanese 10 IB and recommendation of the IB Department

JAPANESE 30 IB (5 CREDITS) This course continues to develop competencies in oral and production/language skills. "Kanji", the most complex alphabet, is examined in more detail. Essay writing is expanded. Students will be assessed on their reading/writing and oral skills with extensive preparation for the oral and written components of the IB exam. No Provincial Diploma Exam.

Prerequisite: Japanese 20 IB and recommendation of the IB Department

BIOLOGY 20 IB (5 CREDITS)

Biology 20 IB will include the study of animal and plant systems. The course will conclude with an extended look at neurobiology and behaviour.

Prerequisite: Science 10 IB/Biology 15 IB and recommendation of the IB Department

BIOLOGY 30 IB (5 CREDITS)

This final course in the Higher Level Biology sequence will emphasize genetics, reproduction, and muscles and movement and a research project integrated with Chemistry 30 IB. Students write the Biology 30 Provincial Diploma Exam in June.

Prerequisite: Biology 20 IB and recommendation of the IB Department

CHEMISTRY 20 IB (5 CREDITS)

Chemistry 20 IB continues the chemistry developed in Chemistry 15 IB to include all of regular Chemistry 20 and the topic of oxidation-reduction from the regular Chemistry 30. All topics are accelerated to allow time for a greater depth and more extensive laboratory work.

Prerequisite: Science 10 IB/Chemistry 15 IB and recommendation of the IB Department

CHEMISTRY 30 IB (5 CREDITS)

Chemistry 30 IB is the final course of the chemistry sequence. The regular Chemistry 30 program (equilibrium, acids and bases, and chemical energy) will be completed in greater depth. More extensive laboratory work and applications are integrated throughout the course. A research project integrated with Biology 30 IB. Students write the Chemistry 30 Provincial Diploma Exam in June.

Prerequisite: Chemistry 20 IB and recommendation of the IB Department

MATHEMATICS 20 IB (5 CREDITS)

This semestered course, taken semester I of Grade 11, includes topics on systems of equations, linear inequalities, quadratic and polynomial equations, functions, reasoning, circle geometry, coordinate geometry and trigonometry, and personal finance. The content of this course is identical to that of Pure Math 20 with the exception that higher level algebraic determination is expected in functions, systems of equations and rational expressions. Higher level thinking is expected of Math 20 IB students.

Prerequisite: Math 10 IB and recommendation of the IB Department

MATHEMATICS 30 IB (5 CREDITS)

This semestered course, taken in second semester Grade 11, includes topics on exponents and logarithms, trigonometry, conic sections, transformations of functions and relations, probability distributions and permutations and combinations. Students write the Provincial Diploma Exam for Pure Math 30 worth 50% of their grade to complete this course. The content of this course will include an extension in the Pure Math 30 topic on probability as well as an Alberta Education developed project to be included as one of the required internal assessments.

Prerequisite: Math 20 IB and recommendation of the IB Department

MATHEMATICS 31 IB (5 CREDITS)

This unsemestered course is primarily made up of the theoretical and practical aspects of both differential and integral calculus as well as the algebra of functions and trigonometry. Other topics specific to IB are completed in this course - vectors, further integration of functions and the remaining required internal assessments. The IB mathematics final exams will be written in May of the Grade 12 year and the Math 31 Final Exam will be written in June of the Grade 12 year. No Provincial Diploma Exam.

Prerequisite: Math 30 IB and recommendation of the IB Department

ADDITIONAL INFORMATION AVAILABLE IN THE IB HANDBOOK