

Course Title	Grade	MS/HS	Department	IB Level*	Regents Exam	Prerequisites	Description
Integrated Algebra	8 or 9	MS/HS	Math		Integrated Algebra Regents	Math 7 Honors or Math 8; students who have completed Math 7 with exceptional performance may take Integrated Algebra I with teacher recommendation	This is a one year Integrated Algebra course that prepares students to take the Integrated Algebra Regents exam. Students who pass this exam will have met their math requirement for a Regents diploma. Students will study algebraic techniques and apply those techniques to problem solving; second degree equations, graphing linear and quadratic equations, beginning trigonometry concepts, coordinate geometry, and statistics. A TI-83 Plus or TI-84 Plus graphing calculator is required for this course.
Geometry	8, 9 or 10	MS/HS	Math			Integrated Algebra	This is a one year Geometry course that prepares students to take the Integrated Geometry Regents. Students will study topics in plane and solid geometry and learn to write formal geometric proofs. A TI-83 Plus or TI-84 Plus graphing calculator is required for this course.
Algebra 2/Trigonometry	10 or 11	HS	Math			Algebra I	This is a one year Advanced Algebra and Trigonometry course that prepares students to take the Algebra 2/Trigonometry regents exam. Students who pass this exam, along with the Integrated Algebra regents exam and geometry regents exam, will have met their NYS math requirement for an Advanced Regents. Topics include the Real Number System, solutions of equations and inequalities, study of functions, conic sections, trigonometry, identities, probability and statistical regression. A TI-83 Plus or TI-84 Plus graphing calculator is required for this course.
Mathematics SL	11 - 12	HS	Math	SL		Algebra 2/Trigonometry	This course builds on the concepts of Algebra 2 and Geometry in preparation for the standard-level IB Mathematics examination. Students examine algebra, functions and equations, circular functions and trigonometry, matrices, vectors, statistics and probability, and calculus. Students produce two portfolio pieces - a mathematical investigation and a mathematical modeling project.
Math Studies SL	11 - 12	HS	Math	SL		Algebra 2/Trigonometry, Geometry	This course builds on the concepts of Algebra 2 and Geometry in preparation for the standard-level IB Mathematical Studies examination. Students examine topics in algebra; sets, logic, and probability; functions; geometry and trigonometry; statistics; introductory differential calculus; and financial mathematics. Emphasis will be placed on applying mathematics to other subjects being studied, common real-world occurrences, and to topics that relate to home, work, and leisure situations. Students carry out an individual mathematical investigation using skills learned before and during the course.
Academic Composition	9	HS	ELA				This course reviews and reinforces the literacy skills needed to be successful across academic disciplines. Students work on both receptive and expressive skills in interdisciplinary topics, learning to write a comparative literary essay, an historical analysis and a scientific review.
Introduction to Literary Studies	9,10	HS	ELA				This course launches students' investigation of literature by surveying genres such as the short story, drama, poetry, and the novel. Studying works from a range of time periods and cultural origins, students will emerge from this course prepared to write substantive literary analysis.
Literary Electives: Themes	10, 11, and 12	HS	ELA			Intro to Literary Studies	Elective courses in literature will be designed according to teacher expertise and student interest. The thematically based organization of course content will require students to explore texts from a range of genres, authors and time periods. Sample topics may include, but are not limited to: Literature of the Jazz Age, Studies in Shakespeare, Feminist Approaches to Literature, American Poetry, Literature of Conflict and Reconciliation.

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Language A: Literature SL	11 - 12	HS	ELA	SL	Comprehensive English	Intro to Literary Studies	This course exists in four parts completed over two years, each part involving a semester-length study: Literary Genres; Detailed Study; Works in Translation; Literature and Film. In the Literary Genres course, students will investigate a group of works from the same genre and build a framework for the comparative study of the selected works through an exploration of the literary conventions and features associated with that genre. In the Detailed Study course, students will conduct detailed analyses of several works through close reading and investigation of the significant elements of each work. Students will explore a variety of interpretations and critical perspectives to form and articulate personal responses to each of the works studied. In the Works in Translation course, students will read several works originally written in a language other than English. Students will develop an understanding of works as being products of a time and place, will explore the different perspectives of people from other cultures, and will consider the role that culture plays in making sense of literary works. The Literature and Film course will center on the study of several printed works that have been adapted for film. Students will focus on techniques for adaptation, the comparative narrative strategies available for authors and directors, and the cultivation of critical thinking skills in response to viewing.
Language A: Literature HL	11 - 12	HS	ELA	HL	Comprehensive English	Intro to Literary Studies & (1) Literature Elective	Literary Genres is a two-year course in which students will read three works from the list of prescribed authors at the standard level and four works at the higher level. In the Detailed Study course, students will read two works from the list of prescribed authors at the standard level and three works at the higher level. In the Works in Translation course, students will read two works from the list of prescribed authors at the standard level and three works at the higher level. In the Literature and Film course, students will read three works from the list of prescribed authors at both the standard and the higher level.
Cultural Anthropology: American Studies	10	HS	HUM		American History	Global Studies	Drawing on the New York State Regents curriculum for American History, this course asks students to explore principles of social and cultural life and characteristics of societies and cultures in America. It will help develop in the student a capacity to recognize preconceptions and assumptions throughout American history. Finally it will help to develop an awareness of relationships between local, regional and global processes and issues.
Global Studies: Economics, Government, Geography	9	HS	HUM		Global Studies	None	Drawing on the New York State Regents curriculum for Global Studies, this course offers students a survey of world history in the context of three major themes: Economics, Government, and Geography. Students will examine the commonalities and differences in these systems in various civilizations from ancient history, up through the middle ages.
History: Route 2 SL	11,12	HS	HUM	SL		Cultural Anthropology	IB History will promote an understanding of history as a discipline, including the nature and diversity of its sources, methods and interpretations. It encourages an understanding of the present through critical reflection upon the past, as well as an understanding of the impact of historical developments at national, regional and international levels. Lastly, students will develop an awareness of their own historical identity through the study of the historical experiences of different cultures.
History: Route 2 HL	11 - 12	HS	HUM	HL		Cultural Anthropology	This is a two year course, which covers the same material as Standard Level, and adds additional study in one of the following areas: the history of Africa, the history of the Americas, the history of Asia and Oceania, the history of Europe and the Middle East.
Ind. and Soc. Electives	11,12	HS	HUM	SL		Cultural Anthropology	Elective courses in Individuals and Societies will be designed according to teacher expertise and student interest. Sample topics may include, but are not limited to: World Religions, Psychology, Economics, Geography. Some courses may be offered for Standard Level IB credit.
Earth Science	9	HS	SCI		Earth Science		This course covers the New York State Regents standards for Earth Science. Topics to be studied include astronomy, geology and plate tectonics, weather and climate, and oceanography. The course includes significant laboratory and field work.

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Chemistry	10, 11, or 12	HS	SCI			One year of high school laboratory science.	This course covers the New York State Regents standards for Chemistry. Topics to be studied include atomic structure, the periodic table, stoichiometry, chemical bonding, physical behavior of matter, kinetics, equilibrium, acids and bases, redox and electrochemistry, organic chemistry, and nuclear chemistry. The course includes significant laboratory work.
IB Biology SL/Living Environment	11 or 12	HS	SCI	SL		Two years of high school laboratory science; Chemistry strongly recommended.	Standard Level Biology covers the New York State Regents Standards for the Living Environment, while going beyond them to fulfill the IB criteria for Biology. Topics to be studied include statistical analysis, ecology, genetics and evolution, cell structure and function, human physiology and health, and plant biology. The course includes significant laboratory work.
IB Biology HL	11 - 12	HS	SCI	HL		Two years of high school laboratory science; Chemistry strongly recommended.	Higher Level Biology is a two-year course that covers the same material as Standard Level Biology while going deeper into and covering additional topics in genetics and evolution, plant science, nucleic acids and proteins, human physiology and health, and cell respiration and photosynthesis, and ecology and conservation. The course includes extensive laboratory work.
Physics	10, 11, or 12	HS	SCI				This course covers the New York State Regents standards for Physics, including laboratory work. Topics to be studied include motion, forces, projectiles, collisions, energy, waves, electricity, magnetism, modern physics, and the standard model of the atom. The course includes significant laboratory work.
Visual Art	6, 7, 8, 9, 10	MS/HS	Arts				The goal of ART at Brooklyn Prospect is to develop student's creativity and problem solving abilities in all subjects (and areas of their lives). Students will create solutions to challenges, individually and in groups, and acquire skills in working with basic mediums. Units of work will be determined by several things: timing of shows at local museums and galleries, coordination with themes in other classes, availability of visiting artists, student interest, as well as facility capabilities.
Visual Art SL	11 or 12	HS	Arts	SL			The Diploma Programme visual arts course at the standard level is a one year course that enables students to engage in both practical exploration and artistic production, and in independent contextual, visual and critical investigation, with option A students focusing more on the former and option B students on the latter. The course is designed to enable students to study visual arts in higher education and also welcomes those students who seek life enrichment through visual arts.
Visual Art HL	11 or 12	HS	Arts	HL			The course content for HL and SL are the same. However, visual arts at the high level is a two year course that allows students the opportunity to develop ideas and skills, to produce a larger body of work and work of greater depth. Because of the nature of the subject, quality work in visual arts can be produced by students at both HL and SL. The aims and assessment objectives are the same for visual arts students at both HL and SL.
Music	6, 7, 8, 9, 10	MS/HS	Arts				Music class will focus on contemporary pop repertoire while teaching the essentials of music theory, rhythm, and melody through analyzing song structure, form, arrangements and harmony. Through the use of voice exclusively, and accompanied by piano, the students will develop the necessary tools to make music together.  The class semester will conclude with a 'gig' at Brooklyn Prospect Charter. As well, students may have the opportunity to perform at Brooklyn Music Factory's end of the year party at Littlefield, a mid-size venue in the Gowanus.
Music SL/HL	11 or 12	HS	Arts	SL/HL			The aim of the music course at SL and HL is to enable students to develop their knowledge and potential as musicians, both personally and collaboratively. Through participating in the study of music perception, students will explore the similarities, differences and links in music from within their own culture and that of others across time. Students learn to hear relationships of pitch in sound, pattern in rhythm and unfolding sonic structures. All music students study musical perception, submitting a musical links investigation and response to a listening examination paper.

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Dance	6, 7, 8, 9, 10,11,12	MS/HS	Arts				Dance is provided as an alternative to Physical Education for serious students interested in learning (or furthering their study in) dance. We will approach dance holistically as a form of artistic expression and a way to exercise to maintain a healthy lifestyle. Broken down into three units over the course of the year, students will have the opportunity to join dance class at the start of each unit. In dance class, students will be exposed and introduced to a wide range of dance styles, including, but not limited to, ballet, modern/contemporary, jazz, tap, improvisation, Classical Indian and ballroom. Focus is placed on improving balance, flexibility, alignment, coordination, rhythm and musicality. Students will be challenged to try new things and will be encouraged to use their creativity to express themselves through movement. All levels of experience are welcome as we work together to promote a fun, noncompetitive atmosphere.
Dance SL	11 or 12	HS	Arts	SL			The Diploma Programme dance curriculum aims for a holistic approach to dance, and embraces a variety of dance traditions and dance cultures. Performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with a liberal arts orientation to dance. This orientation facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance.
Dance HL	11 or 12	HS	Arts	HL			IB Diploma Programme dance at the higher level provides an appropriate foundation for further study in dance history, theory and practice at university level, or in dance career pathways.
Beginner, Intermed., or Advanced Spanish or Mandarin	9,10,11,12	HS	Language			Previous level or test into level	The aim of the first year of study for Language B as a Foreign Language is to have students learn the basic functions of the target language, with the support of the grammar and vocabulary. Listening, Speaking, Writing and Reading are at the core of the instruction. This syllabus will give you the guidelines for the five Units of Study during the first and second semester of the year. The Units of Study follow the National Standards in Communication, Culture, Connections, Comparison and Communities. The students will be able to learn and gain an appreciation of the culture of the Spanish and Chinese speaking countries around the world as well as to gain awareness of the Hispanic and Chinese communities in New York City and the United States.
Spanish ab initio/Mandarin ab initio	11 or 12	HS	Langauge	SL			Language ab initio is a beginner level language acquisition course designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. Through the development of receptive, productive and interactive skills, students develop the ability to respond and interact appropriately in a defined range of everyday situations.
Spanish SL/Mandarin SL	11 or 12	HS	Langauge	SL		Same language must have been taken in 9th and 10th grades.	Language B is a language acquisition course intended for students who have some previous experience with the language. It is designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. The range of purposes and situations for using language in the language B courses extends well beyond those for language ab initio.
<b>*IB Levels:</b>							
SL=Standard Level							
HL=High Level							