

# International Baccalaureate Program

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The International Baccalaureate (IB) Diploma Program is a 2-year course of study for students in 11<sup>th</sup> and 12<sup>th</sup> grades. Students in the IB Diploma Program gain rigorous and balanced academic preparation, an ability to draw on knowledge and understanding of various cultures and histories, and the experience of learning how to think critically and apply what they have learned across disciplines.

The IB Diploma Program consists of the IB core curriculum and six distinct “groups” of study, listed below. At least three but no more than four will be at the higher level (HL) and the remainder will be at the standard level (SL). Course selection within IB is based on student interest, availability, and prerequisites. In most cases, IB students are in dedicated IB classes, listed below; in certain disciplines, students continue in the regular departmental offerings.

There are no required “pre-IB” courses at Country Day but completing some advanced/Honors level courses during 9<sup>th</sup> and 10<sup>th</sup> grades is recommended. Interested students apply to the IB program during February of the 10<sup>th</sup> grade year.

Please see the IB page on BucsNet and/or consult the IB Coordinator for further information.

## The IB Core Curriculum:

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*The following items form the “core” of the IB experience and are required for all IB students:*

### **IB THEORY OF KNOWLEDGE (full year course)**

#### **Prerequisite: Enrollment in the IB Program**

In this junior year course, IB students strive to develop their critical awareness of what they and others know and value. Students analyze “personal knowledge” and “shared knowledge,” observing the overlap and exchange between these categories. Students learn to ask and answer “knowledge questions” and use “the knowledge framework” to explore eight “ways of knowing” and eight “areas of knowledge.” Students are evaluated through class activities and discussion, textbook and parallel reading, oral presentations, regular informal journals and online writing. Enrollment in the IB program is required.

### **EXTENDED ESSAY**

The extended essay is an in-depth study of a topic that culminates in a major research paper. Students choose their research topic from a wide variety of disciplines, and choose a faculty mentor for guidance throughout the essay-writing process. The extended essay is completed during the junior year (as part of Theory of Knowledge) and submitted to IB during the senior year as part of the IB diploma requirements.

### **CREATIVITY, ACTIVITY & SERVICE (CAS)**

CAS is designed to be an opportunity for students to be involved in learning experiences that occur outside of the classroom. Working with the CAS Coordinators, students choose experiences that involve goal-setting, personal growth, and reflection in the three general areas of creativity, physical activity, and service learning. Students maintain a website to log experiences and discuss and reflect on their learning outcomes. All IB students are expected to be regularly involved in and reflecting upon CAS throughout their time in the IB program. IB seniors must also participate in an exit interview with the CAS Coordinators.

## Group I: Language & Literature

### IB ENGLISH 11 HL (full year)

*Prerequisite: enrollment in the IB program*

**Required for all IB juniors**, IB English 11 enables students to build on skills acquired in English 10 by continuing their experience of a broad range of genres, periods, and styles in literature, including world literature texts in translation. Over the two years of IB English, students typically study text by authors such as Ibsen, Fugard, Szymborska, Garcia Marquez, Allende, Shakespeare, King, Heaney, Hawthorne, Morrison, and Fitzgerald. IB assessments include a formal oral presentation on a text and a formal literary analysis of a world literature text studied in the course, an essay ultimately graded by external IB readers. Like their peers in other 11th grade English courses, IB students complete an autobiography.

### IB ENGLISH 12 HL (full year)

*Prerequisite: IB English 11, enrollment in the IB program*

**Required for all IB seniors**, IB English 12 continues the work begun in IB English 11, with a focus on preparing students for a recorded oral examination and two written papers at the end of the year. Major assessments completed at the end of the senior year are scored by external IB readers. Over the two years of IB English, students typically study text by authors such as Ibsen, Fugard, Szymborska, Garcia Marquez, Allende, Shakespeare, King, Heaney, Hawthorne, Morrison, and Fitzgerald. This course fulfills the requirements of IB Language A: Literature HL.

## II. Group 2: Language Acquisition

IB Languages study occurs at three possible levels. “*Ab initio*” is the most basic level and intended for students beginning a new language. Standard level (SL) is for students with multiple years of experience with the language. Higher level (HL) is for high-performing students with multiple years of experience. Students in the IB program move within the language course curriculum for their area of study at the honors or regular level. For any AP or Honors course, IB students must qualify like any other Country Day student.

The chart below describes which courses students should attain in their junior and senior years in order to be best prepared for IB assessments at a particular level. However, there is some flexibility and students may be allowed to take alternate courses with permission from the teacher and IB coordinator.

IB Language of Choice and Desired Level		Required 11 <sup>th</sup> grade course	Required 12 <sup>th</sup> grade course
LATIN	<i>ab initio</i>	(not available)	(not available)
	Standard Level (SL)	Honors <b>or</b> regular Latin IV	Latin V
	Higher Level (HL)	Honors Latin IV	Latin V
CHINESE	<i>ab initio</i>	Chinese II <b>or</b> Honors Chinese II	Chinese III <b>or</b> Honors Chinese III
	Standard Level (SL)	<i>With permission, see IB coordinator</i>	<i>With permission, see IB coordinator</i>
	Higher Level (HL)	(not available)	(not available)
FRENCH	<i>ab initio</i>	French I	Honors French II
	Standard Level (SL)	Honors French IV, French IV, <b>or</b> Honors French III	French V <b>or</b> Honors French IV
	Higher Level (HL)	Honors French IV	AP French
SPANISH	<i>ab initio</i>	Spanish I	Honors Spanish II
	Standard Level (SL)	Hon Spanish IV, Spanish IV, <b>or</b> Honors Spanish III	Spanish V <b>or</b> Honors Spanish IV
	Higher Level (HL)	Honors Spanish IV	AP Spanish

### III. Group 3: Individuals & Societies

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#### *IB WORLD HISTORY SL (full year)*

*Prerequisite: Enrollment in the IB Program*

**Required for all IB juniors**, this course focuses on in-depth study of selected World History topics. These topics may include the US Civil Rights movement, South African apartheid, industrialization from 1750-2005, and the Cold War. Through examination of these topics, students develop greater international mindedness, engage with and evaluate primary sources, and continue to develop their ability to write effectively in History. Major assessments are writing intensive and include the IB historical investigation. At the completion of this course, students either take the IB History SL exam or continue to IB History of the Americas as an HL history candidate. This course fulfills the requirements of IB History SL.

#### *IB HISTORY OF THE AMERICAS HL (full year)*

*Prerequisite: IB World History*

This course emphasizes several topics in United States history, but also integrates topics emphasizing the experiences of other nations and peoples in the Americas. The reading and evaluation of primary sources is central to this course, and students will learn how to evaluate and frame historical arguments. This course fulfills the requirements for IB History HL. **Please note: IB seniors who choose not to complete this HL history class must enroll in a standard or AP US History class in the senior year in order to fulfill the Country Day graduation requirement.**

#### *IB PSYCHOLOGY SL (full year) – Available as a Group 6 Elective*

*Prerequisite: Enrollment in the IB Program*

An introductory course on the scientific study of human behavior, with some reference to animal studies. This course focuses on three levels of analysis in psychology: the biological, the cognitive, and the sociocultural. Additionally, students are introduced to mental disorders and their treatment as they relate to these three levels. Several weeks in the second semester are spent conducting a replication of a published experiment in psychology. There is a focus on specific examples of primary research throughout the course.

#### *IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY SL (full year) This course will next be offered in 2018-2019.*

*Prerequisite: Qualification based on grades in History*

The Information Technology in a Global Society (ITGS) course is the study and evaluation of the impact of

information technology on individuals and society. It explores the advantages and disadvantages of the access and use of digitized information at the local and global level. ITGS provides a framework for students to make informed judgments and decisions about the use of IT within social contexts. This course fulfills the requirements of IB ITGS SL. **This course is also open to both IB and non-IB students in grades 11-12.**

### IV. Group 4: Sciences

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#### *IB BIOLOGY SL (full year)*

*Prerequisites: Chemistry I/Honors Chemistry, enrollment in the IB program*

IB students who wish to study biology as a Standard Level (SL) course take IB Biology during the junior or senior year. This course covers the core curriculum topics: biochemistry, cellular processes, genetics, biotechnology, evolution, ecology, and human physiology. Students perform a minimum of 40 hours of lab activities, some of which occur outside of class.

#### *IB BIOLOGY HL (first semester)*

*Prerequisites: IB Biology SL, enrollment in the IB program*

IB students who wish to study biology as a Higher Level course will take IB Biology SL during the junior year and an additional semester of biology during the fall of senior year. The core topics from junior year are covered in greater depth and additional topics (such as other human systems and plant biology) are introduced. Students also complete an additional 20 hours of lab work, some which occur outside of class.

#### *IB CHEMISTRY SL (full year)*

*Prerequisites: Chemistry I/Honors Chemistry I, enrollment in the IB program*

IB students who wish to study chemistry as a Standard Level course take IB Chemistry during their junior or senior year. The course covers the core curriculum topics: stoichiometry, atomic theory, periodicity, bonding, states of matter, energetics, kinetics, equilibrium, REDOX reactions, and organic chemistry. Emphasis is placed upon deep understanding of chemical concepts and the application of these concepts to novel situations. Assessments are of the IB style, using IB questions and grading schemes. Students perform a minimum of 40 hours of laboratory activities, some of which occur outside of class.

## V. Group 5: Mathematics

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*Group 6 offerings may be found on the following page.*

*In general, eleventh grade students in the IB diploma program follow within the math course curriculum for their area of study at the honors or regular level. In the 12<sup>th</sup> grade, they choose one of the following options. Please note carefully the pre-requisites or co-requisites for each.*

### **IB MATH STUDIES SL (full year)**

**Prerequisite:** Enrollment in the IB program, completion of Algebra III or higher in 11<sup>th</sup> grade

This course covers topics on the IB exam not presented in previous courses, this includes statistics, probability, differential calculus, logic, sets, Venn diagrams, sequence and series, financial mathematics and other minor topics. For their major IB assessment, students complete a personal research project involving the collection, analysis, and evaluation of data. This course fulfills the requirements of IB Mathematical Studies SL.

### **IB CALCULUS & STATISTICS SL (full year)**

**Prerequisite:** Qualifying grade average from Pre-calculus or honors Pre-calculus

This course covers differential and integral calculus with applications for select functions. It also includes selected topics in statistics, probability and vectors. Students will choose a topic and conduct a mathematical exploration paper, which is the major IB assessment. This course fulfills the requirements of IB Mathematics SL and is **open to non-IB students**.

### **CALCULUS III/IB MATHS HL (full year)**

**Prerequisite:** AP Calculus (AB or BC)

This course covers higher level Calculus topics along with vectors, probability and statistics, matrices, higher level differential equations and integration methods, complex numbers, lines and planes in three dimensions, and mathematical induction. Student selected options include advanced statistics, set/group theory, number theory, graph theory, and multivariable calculus topics. For their major IB assessment, students explore an area of mathematics of their choosing. The exploration culminates in a major paper. This course fulfills the requirements of IB Mathematics HL and is **open to non-IB students**.

## VI. Group 6: Fine Arts OR Other Elective

Offerings for the sixth subject area of IB at Charlotte Country Day School include the following:

Category	Course	Semester commitment
Fine Arts	IB Art	4 semester (SL or HL)
Fine arts	IB Theatre	2 semesters (SL) or 3 semesters (HL)
Elective Social Studies	IB Information Technology in a Global Society (“ITGS”), or IB Psychology	2 semester (SL only)
Additional language	Spanish, French, Latin, Chinese	4 semesters (SL or HL)
Additional science	IB Chemistry or IB Biology	2 semesters (SL only)

### *IB ART I (SL, HL) (full year)*

**Prerequisite:** Completion of level III in any Visual Art course, submission of a portfolio, and enrollment in the IB program

This IB course is the first of a two-year program structured according to the guidelines of the IB program. IB Art is designed to expose students to artistic traditions from around the world while allowing students to develop a personal visual art statement contained in a portfolio and research workbook. Students are expected to incorporate acquired skills in a variety of media and methods, apply critical thinking and problem solving skills, and develop works with imagination and creativity. Art History, criticism, and aesthetics are an integral part of the curriculum.

### *IB ART II (SL, HL) (full year)*

**Prerequisites:** IB Art I

This course continues the work started in IB Art I and culminates with an exhibit of student work. Arts I will be scheduled with existing theatre classes to be determined between the student and the IB coordinator.

### *IB THEATRE ARTS SL (full year)*

**Prerequisite:** Successful completion of at least one upper school theatre class and production

IB Theatre Arts gives students the opportunity to actively engage in theatre as creators, designers, directors, and performers. Through researching, creating, preparing, presenting and critically reflecting on theatre, students gain a richer understanding of themselves, their community and the world. They learn about theatre from around the world, the importance of making theatre with integrity, and the impact that theatre can have on the world. It enables them to discover and engage with different forms of theatre across time, place and culture,

promoting international-mindedness and an appreciation of the diversity of theatre. Major assessments will include an original solo theatre piece, a formal presentation on a theatre tradition, and creation and performance of an original and collaborative theatre piece. Students will also participate in at least one of the extracurricular CCDS productions. Students in IB Theatre Arts will be scheduled within existing theatre classes to be determined between the student and the IB coordinator. This course fulfills the requirements of IB Theatre Standard Level.

### *IB THEATRE ARTS HL (full year)*

**Prerequisites:** IB Theater Arts SL

This course builds upon the work completed in IB Theater Arts SL. In addition to that work, HL IB Theater Arts students will study theory and create an original solo piece based on their research. Involvement in the fall one-act plays is required.

**Other Group 6 elective offerings include the following (see Groups 3 & 4 above for full descriptions):**

*IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY SL (full year) (2018-19)*

*IB PSYCHOLOGY SL (full year)*

*IB CHEMISTRY SL (full year)*

*IB BIOLOGY SL (full year)*