

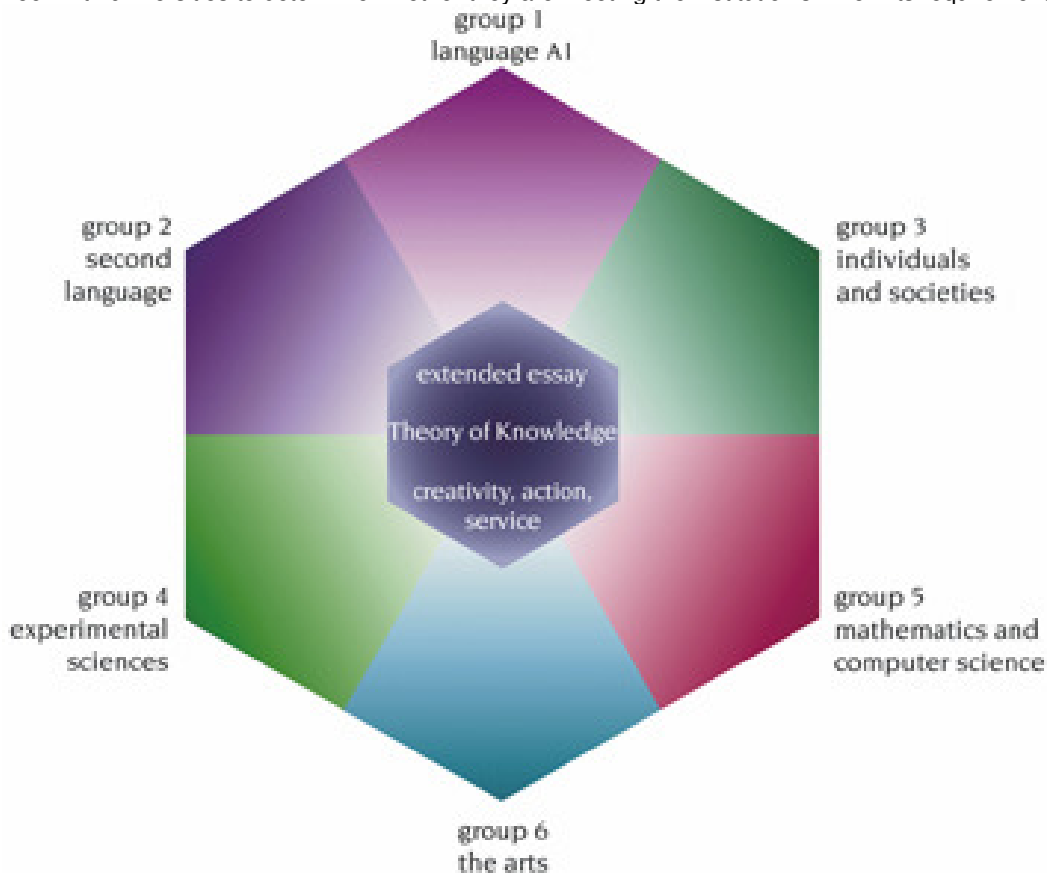
## Courses

# International Baccalaureate (IB)

## *International Baccalaureate Programme*

The International Baccalaureate (IB) Organization's Diploma Programme was created in 1968. It is a demanding pre-university course of study for highly motivated juniors and seniors. Students interested in pursuing the IB Diploma will focus on six academic areas: language, foreign language, individuals and societies, experimental sciences, mathematics, and the arts. At least three of these areas must be taken at a "higher" level. Higher-level courses require at least 240 teaching hours. Active citizenship and global perspectives are also encouraged in each area of the curriculum.

A student interested in earning an IB Diploma (presently available at Hunters Lane, Hillsboro, & Hillwood High Schools) may want to ask the college or university he/she plans to attend what the institution's policy is for International Baccalaureate credit. For example, Vanderbilt University awards college credit in a subject area in which a student earned a grade of 6 or 7 on the higher-level examinations. The University of Tennessee awards credit in various courses and for various scores. Students will also want to check with universities to determine whether they are meeting the institution's Fine Arts requirements.



### Group 1 – Language A1

#### **English III – AP/IB**

**Recommended Prerequisite:**  
**Admission to the IB Programme,**  
**English I and II Honors**  
**Grades Offered: 11**  
**Credit: ½, 1**  
**SDE Course Code: 3011**  
**MNPS Course Code: ENG3000**

English III IB and Advanced Placement Language/Composition combined programmes involve the intense study of seven literary works

and oral presentations to demonstrate mastery of material. Additionally, the curriculum focuses on helping students in becoming skilled readers of text written in a variety of periods, disciplines, and rhetorical contexts. The course will also provide the practice and helpful criticism necessary to make students flexible writers who can compose in a variety of modes and for a variety of purposes. During this year, students will complete appro-

priate requirements for the IB Diploma Programme. The course will prepare students to demonstrate success on the TCAP Writing Assessment. Students will be encouraged to take appropriate portions of the IB Assessments and/or the Advanced Placement Test in Language/Composition.

**English III – IB, HL**

**Recommended Prerequisite:**  
**Admission to the IB Programme, English I and II Honors**  
**Grades Offered:** 11  
**Credit:** ½, 1  
**SDE Course Code:** 3004  
**MNPS Course Code:** ENG3004

HL English is a two-year course (English III and IV) of study in which students study fifteen literary selections in four different genres: the novel, drama, poetry, and non-fiction. Five of the fifteen literary works have been written in another language first and translated into English. Students are expected to write extensively, master literary criticism and analysis, make presentations, and research various literary topics. In addition to the selected literary works, students will become skilled at interpreting and analyzing various unseen, unfamiliar passages. IB assessments include oral presentations to the group, oral commentaries with the teacher one-on-one, two world literature papers, and two examination-type essay papers written at the end of the two-year course of study.

**English IV – IB, HL**

**Required Prerequisite:** English III – IB, HL  
**Grades Offered:** 12  
**Credit:** ½, 1  
**SDE Course Code:** 3006  
**MNPS Course Code:** ENG3006

**Group 2 – Second Language****French AP/IB, SL**

**Recommended Prerequisites:** *IB students with 3 or more years of French-speaking experience*  
**Grades Offered:** 11 - 12  
**Credit:** ½, 1  
**SDE Course Code:** 3039  
**MNPS Course Code:** FLA3039

This course is designed to advance and enhance students' reading, writing, listening, and speaking skills through an integrated approach to foreign language acquisition. In this curriculum, students will focus on the four primary skills

HL English is a two-year course (English III and IV) of study in which students study fifteen literary selections in four different genres: the novel, drama, poetry, and non-fiction. Five of the fifteen literary works have been written in another language first and translated into English. Students are expected to write extensively, master literary criticism and analysis, make presentations, and research various literary topics. In addition to the selected literary works, students will become skilled at interpreting and analyzing various unseen, unfamiliar passages. IB assessments include oral presentations to the group, oral commentaries with the teacher one-on-one, two world literature papers, and two examination-type essay papers written at the end of the two-year course of study.

**English IV – AP/IB**

**Recommended Prerequisite:**  
**English III IB**  
**Grades Offered:** 12  
**Credit:** ½, 1  
**SDE Course Code:** 3009  
**MNPS Course Code:** ENG3005

English IV IB (Higher Level) and Advanced Placement Literature/Composition combined programs involve the intense study of eight additional literary works and formal commentaries, both oral and written, based on selected works. Additionally, the curriculum focuses on helping students to become

while also developing the ability to handle grammatical concepts more accurately, learn language appropriate to certain social and cultural situations, and use these skills in order to communicate ideas clearly. In addition, through the study and use of a wide range of authentic texts, this upper-level course will offer students the opportunity to explore global perspectives responsibly and encourage cultural awareness in regard to France and French-speaking cultures. After three years of language education, students will have studied the

skilled in critical analysis of literature and in expository composition based on literary selections. During this year, students will complete appropriate requirements and assessments for the IB Diploma Programme. Additionally, students will be encouraged to take the Advanced Placement Test in English Literature/Composition.

**Language IB, SSL**

*(Self-study for Highly Competent Speakers of the Language)*

**Recommended Prerequisite:**  
**Grades Offered:**  
**Credit:** ½, 1  
**SDE Course Code:** 3016  
**MNPS Course Code:** FLA3112

IB Diploma candidates who are fluent in a language other than English, may work with the IB Coordinator and the IB English teacher to create an IB course of study in the student's native language for which no teacher is available in the school. At this level, the students will read and study nine works of selected literature written in the native language. The students will study multiple genres: the novel, drama, poetry, and non-fiction. These students will write three papers and make two oral presentations in the non-English language to be externally assessed by IB. These students will be eligible to earn a bilingual IB Diploma.

grammatical structure and sequences as well as developed the vocabulary necessary to communicate proficiently in many situations. By using these as a foundation, students will be challenged through a variety of communicative functions to integrate skills in order to negotiate meaning. Course content is aligned with the College Board's expectations for an Advanced Placement French Language course.

**French AP/IB, HL**  
**Recommended Prerequisites:**  
**French I, II, and III Honors**  
**Grades Offered:** 11 - 12  
**Credit:** ½, 1  
**SDE Course Code:** 3049  
**MNPS Course Code:** FLA3049

French II IB/AP is a fourth-year level course for seniors. It offers students the continued process of learning to speak French at an advanced level. Listening, speaking, reading, and writing are refined so that students are able to comprehend and produce French at a high level of proficiency. In addition, the culture of the Francophone world is studied in greater detail. These proficiencies are demonstrated through the rigors of the IB examination and/or the Advanced Placement French Language examination. Course guidelines are aligned with ACTFL's National Standards, ACTFL's proficiency scales, the College Board's AP French Language Program, and the International Baccalaureate Diploma Programme.

**Language B IB, SL, Ab Initio I**  
*(For students with no French- or Spanish-speaking experience)*  
**Recommended Prerequisite:**  
**Grades Offered:** 11  
**Credit:** ½, 1  
**SDE Course Code:** 3056  
**MNPS Course Code:** FLA3110

The curriculum uses a holistic instructional approach to ensure that the student develops reading, writing, listening, and speaking skills in the target language, as well as a fundamental understanding of the culture and its rich diversity. Centered on a core syllabus that explores common cultural themes such as education and work, food and drink, and travel and leisure, students will be exposed to a wide variety of practical situations and

information. At the end of the course, students will have the grammar, vocabulary, and communication skills necessary to interact in a new cultural context, one that inevitably will impact the individual's worldview. Students in an IB *ab initio* course may test only at the IB SL level.

**Language B IB, SL, Ab Initio II**  
**Required Prerequisite:** Ab Initio I  
**Grades Offered:** 12  
**Credit:** ½, 1  
**SDE Course Code:** 3066  
**MNPS Course Code:** FLA3111

The curriculum uses an holistic instructional approach to ensure that the student develops reading, writing, listening, and speaking skills in the target language, as well as a fundamental understanding of the culture and its rich diversity. Centered on a core syllabus that explores common cultural themes such as education and work, food and drink, and travel and leisure, students will be exposed to a wide variety of practical situations and information. At the end of the course, students will have the grammar, vocabulary, and communication skills necessary to interact in a new cultural context, one that inevitably will impact the individual's worldview. Students in an IB *ab initio* course may test only at the IB SL level.

**Spanish AP/IB, SL**  
**Recommended Prerequisites:**  
*Students with 3 or more years of Spanish-speaking experience*  
**Grades Offered:** 11 - 12  
**Credit:** ½, 1  
**SDE Course Code:** 3020  
**MNPS Course Code:** FLA3020

This course offers students the continued process of learning to speak Spanish at an advanced level. Lis-

tening, speaking, reading, and writing are refined so that students are able to comprehend and produce Spanish at a high level of proficiency. In addition, the culture of the Hispanic world is studied in greater detail. These proficiencies are demonstrated through the rigors of the IB examination. Course guidelines are aligned with ACTFL's National Standards, ACTFL's proficiency scales, the International Baccalaureate Diploma Programme, and the College Board's Advanced Placement course expectations.

**Spanish AP/IB, HL**  
**Recommended Prerequisites:**  
**Spanish I, II, and III Honors**  
**Grades Offered:** 11 - 12  
**Credit:** 1, 2  
**SDE Course Code:** 3029  
**MNPS Course Code:** FLA3029

Spanish AP/IB, HL is a fourth-year level course for seniors. It offers students the continued process of learning to speak Spanish at an advanced level. Listening, speaking, reading, and writing are refined so that students are able to comprehend and produce Spanish at a high level of proficiency. In addition, the culture of the Hispanic world is studied in greater detail. These proficiencies are demonstrated through the rigors of the IB examination and/or the Advanced Placement Spanish Language examination. Course guidelines are aligned with ACTFL's National Standards, ACTFL's proficiency scales, the College Board's AP Spanish Language Programme and the International Baccalaureate Diploma Programme.

### Group 3 – Individuals and Societies

**Art History AP/IB, SL**  
**Recommended Prerequisite:** Art Survey  
**Grades Offered:** 11-12

**Credit:** ½, 1  
**SDE Course Code:** 3534  
**MNPS Course Code:** ART2515

This course will follow the guidelines of the College Board AP or IB Art History course, which have the

following objectives: the students will develop understanding and enjoyment of architecture, sculpture, painting and other art forms within historical and cultural contexts; the students will examine major forms of artistic expression from the past and the present from a variety of cultures; and the students will learn to look at works of art critically, with intelligence and sensitivity, and to analyze what they see.

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***Ecosystems and Society IB, SL***  
**Recommended Prerequisite:**

**None**

**Grade Offered: 11 - 12**

**Credit: ½, 1**

**SDE Course Code: 3451**

**MNPS Course Code: SST5225**

Ecosystems and Societies is a transdisciplinary (IB hexagon groups 3 and 4), course that will be available to schools from September 2008; first examinations will be held in May and November 2010. The course will replace Environmental Systems, for which last examinations will be held in May and November 2009. Ecosystems and Societies is broadly based on the current Environmental Systems specification; however, as it is transdisciplinary, it places a greater emphasis on human attitudes to the environment and on the interrelationships between the environment and human societies. This is because it satisfies the requirements for both hexagon groups 3 and 4, leaving IB diploma candidates the option to study another subject from any other hexagon group including another group 3 or 4 subject if they wish. The topics of study include systems and models; the ecosystem; human population, carrying capacity, and resource use; the issue of global warming; and environmental value systems.

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***Economics IB, SL***

**Recommended Prerequisite:**

**None**

**Grades Offered: 11-12**

**Credit: ½, 1**

**SDE Course Code: 3438**

**MNPS Course Code: SST5220**

Economics introduces the student to the basic tools of economic rea-

soning, offering an understanding of current problems while encouraging students to employ economic analysis in different situations. Topics discussed include the following: Market Equilibrium, Factor Market, Externalities, Resource Allocation, National Income, Fiscal and Monetary Policy, International Trade, Economic Development and Growth. The course is studied over 1 year and is deemed a sound introduction for university-bound students, interested in Arts, Law, Economics and Business Administration or Commerce. Portfolio work is required to be submitted to IB examiners.

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***History of the Americas I IB, HL***

*(For students who are taking the first year of the HL HOA course)*

**Recommended Prerequisite: AP World History and/or AP Human Geography**

**Grades Offered: 11 - 12**

**Credit: ½, 1**

**SDE Course Code: 3406**

**MNPS Course Code: SST3406**

For International Baccalaureate schools, this is a comparative history course that focuses on the history of the United States from 1650 to present. This study will consider United States history in relation to the histories of Canada and Latin America, with the aim of promoting an awareness and understanding of the Americas through a comparative study of the political, cultural, economic, and social issues. For Diploma students only, this course is part of the two-year programme to complete requirements for the Higher Level IB History.

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***History of the Americas II IB, HL***

**Recommended Prerequisite:**

**History of the Americas I IB, HL**

**Grades Offered: 12**

**Credit: ½, 1**

**SDE Course Code: 3409**

**MNPS Course Code: SST3409**

For International Baccalaureate schools, this course is an in-depth study of the 20th-century that continues and expands the previous year's study. Students will focus on domestic and international events within the comparative framework of the history of the United States,

Canada and Latin America. During the course, students will complete an internally assessed paper based upon individual research. The course will prepare students for the IB examination, which is assessed by external examiners. This two-year programme fulfills the U.S. History and Government requirements for graduation. IB certificate candidates may take this year of the two-year course to earn SL level credit in IB History of the Americas.

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***History of the Americas IB, SL/HL***

*(For SL certificate students who are taking the 20<sup>th</sup>-Century Topics year of the two-year course,*

*either as HL candidates who have also taken the other year of HOA or they have previously completed U.S. History)*

**Recommended Prerequisite:**

**HOA I IB or U.S. History**

**Grades Offered:**

**Credit: ½, 1**

**SDE Course Code: 3413**

**MNPS Course Code: SST4406**

For International Baccalaureate schools, this course is an in-depth study of the 20<sup>th</sup>-century that continues and expands the previous year's study. Students will focus on domestic and international events within the comparative framework of the history of the United States, Canada, and Latin America. During the course, students will complete an internally assessed paper based upon individual research. The course will prepare students for the IB examination, which is assessed by external examiners. This two-year programme fulfills the U.S. History and Government requirements for graduation. IB certificate candidates may take this year of the two-year course to earn SL level credit in IB History of the Americas.

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***History of the Americas IB/AP***

*(For students who are taking the AP U.S. History and the HOA IB tests at the conclusion of the course of study)*

**Recommended Prerequisite: AP World History and/or Human Geography**

**Grades Offered: 11 - 12**

**Credit: ½, 1**

**SDE Course Code: 3414**  
**MNPS Course Code: SST4406**

Students enrolled in this one year of History of the Americas are studying the year of the HL two-year curriculum that focuses on the IB Paper 3 topics from the colonial period through the present in the Americas with special emphasis on the United States. Students will take the US History AP exam in May and will begin exploring relevant topics for the IB historical investigation throughout the year. This year of the course may not be taught or presented as an SL option for History of the Americas.

**Information Technology in a Global Society (ITGS) IB, SL**  
**Recommended Prerequisite: None**

**Grades Offered: 11 - 12**

**Credit: ½, 1**

**SDE Course Code: 3695**

**MNPS Course Code: SST3695**

This course is designed to fulfill one of the Group Three requirements for students in the IB Programme. It may also be used as a Group Six elective. The focus of the course is the impact of information technology on individuals and society, particularly the advantages and disadvantages of using digitized information at the local and global levels. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts. ITGS is not a programming course; however, students in ITGS must be familiar with basic software applications and their use as well as have good research skills.

**Psychology IB, SL**

**Recommended Prerequisite: Psychology**

**Psychology**

**Grades Offered: 9 - 12**

**Credit: 1**

**SDE Course Code: 3434**

**MNPS Course Code: SST3434**

Psychology SL focuses on the study of development in an individual's biological, cognitive, social, emotional, and cultural behavior. The course will utilize three perspectives in its study. Students will gain an understanding of the biological perspective, the cognitive perspective, and the learning perspective. Students will compare how these three perspectives are applied to human development. By the middle of the second semester, students will complete the internal assessment as detailed by the International Baccalaureate Organization. During the latter part of the second semester, the students will apply the three perspectives to the option study of cultural psychology. The differences and similarities among cultures and people and how they relate to one another will be part of the option study. Paper 1 and Paper 2 will be completed in the second semester.

**Theory of Knowledge - (TOK)**  
**Open only to IB Diploma candidates**

**Grades Offered: 11 - 12**

**Credit: ½, 1**

**SDE Course Code: 3079**

**MNPS Course Code: SST3079**

This required course for IB Diploma candidates offers multiple opportunities to stimulate creative and open-minded thinking and communication about the world. The TOK class requires the integration of knowledge gained from all six disciplines taught in the IB curriculum. Students are asked philosophical questions which they explore in small- and whole-group settings; they pose their own questions as a result of the discussions. Guided writing assignments, both short-term and extended, result in refined thinking skills, as demonstrated in persuasively organized arguments. IB Diploma candidates in the TOK class prepare for two exit evaluations: a ten-minute oral presentation

in class to be evaluated by the class instructor and by the student; a 1200-1600-word paper to be evaluated externally by IBO assessors. Students who complete the TOK course look at issues concerning the universe and our world community with a variety of different levels and perspectives.

**World Arts and Cultures IB, SL**  
**(Course available upon request)**  
**Recommended Prerequisite: Art Survey**

**Grades Offered: 11 - 12**

**Credit: ½, 1**

**SDE Course Code: 3437**

**MNPS Course Code: SST5000**

SL World Cultures is a transdisciplinary history, art history, and social studies course in which students explore cultural objects and phenomena with a focus upon interactions between cultures and civilizations. Through the methodologies of historical investigation, art history, ethno-musicology, anthropology, and sociology, students engage directly with works of art and cultural phenomena at the class level, and carry out individual research and case studies of cultural phenomena in the region in which the school is based. Students are expected to write extensively, observe, generalize about, categorize and compare cultural phenomena, and make oral presentations to explain how and why works of art and cultural phenomena generate meaning. IB assessments include timed examinations, written essays, and an individual study of 1500-2500 words produced during the course of the year. This course is appropriate as a history or visual arts course offering.

**Group 4 – Experimental Sciences**

**Biology II IB, SL**

**Recommended Prerequisite: Biology I Honors, Chemistry I Honors**

**Grades Offered: 11 - 12**

**Credit: ½, 1**

**SDE Course Code: 3227**

**MNPS Course Code: SCI3208**

SL Biology is a one-year course of study in which students cover a

series of 5 biological topics. An additional two topics of study are required; students have an opportunity to choose a topic of interest. Students are also expected to complete a Group 4 Project. The Group 4 project requires integration of research with other scientific disciplines offered at the school level. The students convey the findings of their research in a formal research paper written at the individual level. The students are also expected to conduct a minimum of 25 hours of laboratory research. This component of the class is utilized as the internal assessment grade for Biology SL.

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***Biology II IB, SL/HL***

**Recommended Prerequisite:** Biology I Honors, Chemistry I Honors

**Grades Offered:** 11 - 12

**Credit:** ½, 1

**SDE Course Code:** 3215

**MNPS Course Code:** SCI3218

Biology IB is a process-driven course containing internal and external assessment components. In addition to short- and long-term laboratory experiences, students demonstrate their ability to design and execute scientific investigations through an interdisciplinary group project. In the spring, students show extent of subject mastery on the international examination.

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***Biology III IB, HL***

**Recommended Prerequisite:** Biology II IB

**Grades Offered:** 12

**Credit:** ½, 1

**SDE Course Code:** 3218

**MNPS Course Code:** SCI3215

HL Biology is a two-year course of study in which students cover a series of 13 biological topics. An additional 2 topics of study are required; students have an opportunity to choose a topic of interest. Students are also expected to complete a Group 4 Project. The Group 4 project requires integration of research with other scientific disciplines offered at the school level. The students convey the findings of their research in a formal research paper written at the individual level. The students are also expected to

conduct a minimum of 45 hours of laboratory research. This component of the class is utilized as the internal assessment grade for Biology HL.

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***Chemistry II AP/IB, SL***

**Recommended Prerequisite:**

**Chemistry I Honors and Algebra II Honors**

**Grades Offered:** 11 - 12

**Credit:** ½, 1

**SDE Course Code:** 3223

**MNPS Course Code:** SCI6311

This course is designed to allow students to master chemical concepts at a collegiate level. In addition, this course will promote critical thinking in analysis and interpretation of laboratory data. The emphasis in this course is not only on content, but also on the process of scientific inquiry. Topics investigated will include stoichiometry, atomic theory, periodicity, chemical bonding, organic chemistry, states of matter, energetics, kinetics, equilibrium, acids and bases, oxidation and reduction, and human biochemistry.

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***Chemistry III IB, HL***

**Recommended Prerequisite:**

**Chemistry II AP/IB**

**Grades Offered:**

**Credit:**

**SDE Course Code:** 3228

**MNPS Course Code:** SCI6321

HL Chemistry is a two-year course of study in which students cover a series of 13 chemical topics. Students are also expected to complete a Group 4 Project. The Group 4 project requires the integration of research with other scientific disciplines offered at the school level. The students convey the findings of their research in a formal research paper written at the individual level. The students are also expected to conduct a minimum of 45 hours of laboratory research. This component of the class is utilized as the internal assessment grade for Chemistry HL.

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***Environmental Systems IB, SL***

**Recommended Prerequisite:**

**None**

**Grades Offered:** 11 - 12

**Credit:** ½, 1

**SDE Course Code:** 3236

**MNPS Course Code:** SCI3236

IB Environmental Systems is a challenging one-year course covering topics of systems and modeling, ecosystem dynamics, earth sciences including cycles and physical systems, and critical human population issues and capacities. In addition, a combination of practical options exists in the course syllabus which includes a measurement analysis of ecosystems and a choice to study resource exploitation, conservation, or pollution. The ability to communicate is essential in modern environmental science. Students will participate in research preparation for debate and policy-making. The display of organized data is crucial to influencing opinion, and students will use modern presentation technology for this purpose. This aspect of the course acknowledges that moral and political responses are required from the students, and environmental systems easily lend themselves to the educational development of these domains.

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***Physics II IB, SL***

**Recommended Prerequisite:**

**Physics I Honors**

**Grades Offered:** 11 - 12

**Credit:** ½, 1

**SDE Course Code:** 3229

**MNPS Course Code:** SCI6212

SL Physics is one-year course of study in which students study 6 core physics concepts, including mechanics, thermal physics, waves, electricity and magnetism, and modern physics with 2 additional concepts chosen from a list of 8 concepts. The additional concepts offer the students an opportunity to broaden their knowledge base in an area of interest. The students are expected to spend 40 hours on practical activities, with 10 to 15 hours for the Group 4 Project. The Group 4 project requires integration of research with other scientific disciplines offered at the school level. The students convey the findings of their research in a formal research paper written at the individual level. The internal assessment grade for physics includes

both the laboratory research and the Group 4 project.

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**Physics III IB, HL**

**Recommended Prerequisite:**

**Physics II IB**

**Grades Offered: 12**

**Credit: ½, 1**

**SDE Course Code: 3232**

**MNPS Course Code: SCI6222**

HL Physics is a two-year course of study in which students study 12

core physics concepts with 2 additional concepts chosen from a list of 5 concepts. The additional concepts offer the students an opportunity to broaden their knowledge base in an area of interest. The higher-level class offers both a deeper and wider understanding of physics and the scientific method. The students are expected to spend 60 hours on practical activities, with 10 to 15 hours for the Group 4 Project. The Group 4 project requires integration of research with other

scientific disciplines offered at the school level. The students convey the findings of their research in a formal research paper written at the individual level. The internal assessment grade for physics includes both the laboratory research and the Group 4 project.

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## Group 5 – Mathematics and Computer Science

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**Computer Science IB, HL**

**Recommended Prerequisite:**

**Computer Science IB, SL**

**Grades Offered: 12**

**Credit: ½, 1**

**SDE Course Code: 3110**

**MNPS Course Code: MTH3131**

The higher level (HL) course encompasses software development, fundamentals of computer systems, and the relationship between computing systems and society. The course of study is extended to include computer mathematics and logic, advanced data structures and algorithms, further system fundamentals, and file organization.

edge of basic mathematical concepts, and who are equipped with the skills needed to apply simple mathematical techniques correctly. The majority of these students will expect to need a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, psychology, and business administration. Topics for study include Algebra; Functions and Equations; Circular Functions and Trigonometry; Matrices; Vectors; Statistics and Probability; Calculus.

depth options in the second year of further study include Statistics and Probability; Sets, Relations and Groups; Series and Differential Equations; Discrete Math.

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**Computer Science IB, SL**

**Recommended Prerequisite:**

**None**

**Grades Offered: 11-12**

**Credit: ½, 1**

**SDE Course Code: 3109**

**MNPS Course Code: MTH3121**

The computer science standard level (SL) course focuses on software development, fundamentals of computer systems, and the relationship between computing systems and society.

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**Mathematics II IB, HL**

**Recommended Prerequisite:**

**Mathematics I IB**

**Grades Offered: 12**

**Credit: ½, 1**

**SDE Course Code: 3106**

**MNPS Course Code: MTH3148**

This course is designed for students with a good background in mathematics who are competent in a range of analytical and technical skills. The majority of these students will be expecting to include mathematics as a major component of their university studies, either as a subject in its own right or within courses such as physics, engineering, and technology. Others may take this subject because they have a strong interest in mathematics and enjoy meeting its challenges and engaging with its problems. Topics for study include same core topics as SL - Algebra; Functions and Equations; Circular functions and Trigonometry; Matrices; Vectors; Statistics and Probability; Calculus. Choice of additional in-

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**Math Studies I IB, SL**

**Recommended Prerequisite: Algebra II Honors**

**Grades Offered: 11-12**

**Credit: ½, 1**

**SDE Course Code: 3140**

**MNPS Course Code: MTH3139**

This course is available at SL only. It is designed for students with varied backgrounds and abilities. More specifically, it is designed to build confidence and encourage an appreciation of mathematics in students who do not anticipate a need for mathematics in their future studies. Students taking this course need to be already equipped with fundamental skills and a rudimentary knowledge of basic processes. These Math Studies topics are studied: Number and Algebra; Sets logic and Probability; Functions; Geometry and Trigonometry; Statistics; Introductory Differential Calculus; Financial Mathematics.

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**Math Studies II IB, SL**

*(For students who have completed Math Studies I IB, Algebra II Honors, or Pre-Cal)*

**Recommended Prerequisite: See above**

**Grades Offered:**

**Credit: ½, 1**

**SDE Course Code: 3141**

**MNPS Course Code: MTH3149**

This course is available at SL only. It is designed for students with varied backgrounds and abilities. More specifically, it is designed to build

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**Mathematics I IB, SL**

**Recommended Prerequisite: Pre-Calculus**

**Grades Offered: 11-12**

**Credit: ½, 1**

**SDE Course Code: 3138**

**MNPS Course Code: MTH3138**

This course is designed for students who already possess knowl-

confidence and encourage an appreciation of mathematics in students who do not anticipate a need for mathematics in their future studies. Students taking this course

need to be already equipped with fundamental skills and a rudimentary knowledge of basic processes. These Math Studies topics are studied: Number and Algebra; Sets

logic and Probability; Functions; Geometry and Trigonometry; Statistics; Introductory Differential Calculus; Financial Mathematics.

## Group 6 - The Arts

### **Music I IB**

**Recommended Prerequisite: Musical background**  
**Grades Offered: 11-12**  
**Credit: ½, 1**  
**SDE Course Code: 3508**  
**MNPS Course Code: MUS3508**

Students may focus on solo performance, group performance, or composition. Students will learn comprehensive music history, how to analyze and compose music; for a performance component, a recital will be required. As a solo performance track, the student may play any instrument or sing. A recorded recital will be submitted at the end of the semester for credit. As a group performance member, the student must be involved in an outside ensemble—vocal or instrumental—which can have a recorded performance for credit submission.

### **Music II IB, SL/HL**

**Recommended Prerequisites: Music I IB**  
**Grades Offered: 11-12**  
**Credit: ½, 1**  
**SDE Course Code: 3518**  
**MNPS Course Code: MUS3518**

Combines both performance and theory and will be tailored to the music programmes in the authorized schools.

### **Music AP/IB**

**Recommended Prerequisite: Teacher Recommendation**  
**Grades Offered: 11-12**  
**Credit: ½, 1**  
**SDE Course Code: 3535**  
**MNPS Course Code: MUS2720**

This course will follow the guidelines of the College Board AP and IB Music courses. It is designed as a serious in-depth involvement in the areas of melody writing, melodic form and analysis, composition, ear-training, harmony, part-writing, arranging for voice and instruments,

and beginning orchestration. Class is taught through keyboard and computer experiences.

### **Theatre Arts IB, SL**

**Recommended Prerequisite: Musical background**  
**Grades Offered: 11-12**  
**Credit: ½, 1**  
**SDE Course Code: 3519**  
**MNPS Course Code: ENG1821**

Theatre SL is a one-year course of study in which students study and actively participate in all areas of theatre: performance, production, directing, dramaturgy, theatre history, theatre criticism, theatre genres, and theatre styles. Students study at least two contrasting theatre practices, and a minimum of two plays from various theatrical tradition and cultures other than their own, while at the same time studying performance and production techniques. IB assessments include a portfolio of performance and production work, growth as a theatrical person, connections made with theatre of another culture and criticisms of productions seen; an evaluation of their development in performance and production techniques; a research commission in which they take on the role of dramaturgy studying a theatrical tradition before unknown to them; and a practical play analysis in which they create a director's concept for a given play.

### **Theatre Arts I IB, HL**

**Recommended Prerequisites: Music I IB**  
**Grades Offered: 11-12**  
**Credit: ½, 1**  
**SDE Course Code: 3546**  
**MNPS Course Code: ENG1831**

In the first year of this two-year course, students begin to understand the nature of theatre, not only by studying it but also by creating it. Students will learn about the

various forms theatre takes in cultures around the world and will therefore come to a better understanding of those cultures and, in turn, their own. They will see the things that make theatre all over the world different, while at the same time discovering the ties that bind. They will begin their experience with performing, designing, directing, producing, and critiquing multiple forms of theatre. Students also begin preparing for their IB assessments to be completed during the second year. Students are required to see at least two productions each semester and be involved in at least two productions, either at school or with another theatre company over the course of their two years in Theatre IB.

### **Theatre Arts II IB, HL**

**Recommended Prerequisite: Theatre Arts I IB**  
**Grades Offered: 12**  
**Credit: ½, 1**  
**SDE Course Code: 3547**  
**MNPS Course Code: ENG1931**

In the second year of this two-year course, students study and actively participate in all areas of theatre: performance, production, directing, dramaturgy, theatre history, theatre criticism, theatre genres, and theatre styles. Students continue their study of world theatre and by the end of the course will have studied at least three contrasting theatre practices, and a minimum of three plays from various theatrical tradition and cultures other than their own. IB assessments will be concluded during the second year; they include a portfolio of performance and production work, which shows growth as a theatrical person, connections made with theatre of another culture, and criticisms of productions seen; an evaluation of their development in performance and production techniques; an individual project in any area of theatre; a research commission in which they take on the role of dramaturgy

studying a theatrical tradition before unknown to them; and a practical play analysis in which they create a director's concept for a given play.

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**Visual Arts IB, SL-A**

**Recommended Prerequisite: Visual Arts**

**Grades Offered: 11-12**

**Credit: ½, 1**

**SDE Course Code: 3509**

**MNPS Course Code: MUS3516**

IB Visual Arts provides students with opportunities to make personal, sociocultural, and aesthetic experiences meaningful through an emphasis on the production and understanding of art. There are two main components to this course: Studio Work and Research Workbooks. For Visual Arts A Studio Work is the focus (70%), while Research Workbooks comprise 30% of the grade. For the Studio Work component, students will identify a theme and produce works of art with imagination and creativity related to that theme through the exploration of a variety of visual phenomena, synthesis of art concepts and skills, solving formal and technical problems, and exhibiting technical skills and appropriate use of media. For the Research Workbook component, students will demonstrate in visual and written terms how personal research has led to an understanding of the topics or concepts being investigated; analyze critically the meaning of art forms; show awareness of the cultural, historical, and social dimensions of themes in more than one cultural context, and examine the art of other cultures for meaning and significance. This is a one-year course.

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**Visual Arts IB, SL-B**

**Recommended Prerequisite: Visual Arts I**

**Grades Offered: 11-12**

**Credit: ½, 1**

**SDE Course Code: 3510**

**MNPS Course Code: MUS3526**

IB Visual Arts B provides students with opportunities to make personal, sociocultural, and aesthetic experiences meaningful through an emphasis on research and analysis of visual phenomena, synthesis of

art concepts and skills, formal and technical problem solving. There are two main components to this course: Studio Work and Research Workbooks. For Visual Arts SL-B, the focus is the Research Workbook (70%) while Studio Work will comprise 30% of the grade. For the Research Workbook component, students will demonstrate in visual and written terms how personal research has led to an understanding of the topics or concepts being investigated; analyze critically the meaning of art forms; show awareness of the cultural, historical, and social dimensions of themes in more than one cultural context; and examine the art of other cultures for meaning and significance. The Studio Work will be an experimentation of techniques and media explored in the Research Workbook. This is a one-year course.

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**Visual Arts IB, SL/HL**

**Recommended Prerequisite: Visual Arts I**

**Grades Offered: 11-12**

**Credit: ½, 1**

**SDE Course Code: 3537**

**MNPS Course Code: ART3100**

IB Visual Arts provides students with opportunities to make personal, sociocultural, and aesthetic experiences meaningful through an emphasis on the production and understanding of art. There are two main components to this course: Studio Work and Research Workbooks. For Visual Arts A, Studio Work is the focus (70%), while Research Workbooks comprise 30% of the grade. For the Studio Work component, students will identify a theme and produce works of art with imagination and creativity related to that theme through the exploration of a variety of visual phenomena, synthesis of art concepts and skills, solving formal and technical problems and exhibiting technical skills and appropriate use of media. For the Research Workbook component, students will demonstrate in visual and written terms how personal research has led to an understanding of the topics or concepts being investigated, analyze critically the meaning of art forms, show awareness of the cultural, historical and social dimensions of themes in more than one

cultural context, and examine the art of other cultures for meaning and significance. For Visual Arts SL-B the focus is the Research Workbook (70%) while Studio Work will comprise 30% of the grade. This is a one-year course for SL students and a two-year course for HL students.

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**Visual Arts I IB, HL**

**Recommended Prerequisite: Visual Arts I**

**Grades Offered: 11**

**Credit: ½, 1**

**SDE Course Code: 3538**

**MNPS Course Code: ART3110**

IB Visual Arts provides students with opportunities to make personal, sociocultural, and aesthetic experiences meaningful through an emphasis on the production and understanding of art. There are two main components to this course: Studio Work and Research Workbooks. For Visual Arts A, Studio Work is the focus (70%), while Research Workbooks comprise 30% of the grade. For the Studio Work component, students will identify a theme and produce works of art with imagination and creativity related to that theme through the exploration of a variety of visual phenomena, synthesis of art concepts and skills, solving formal and technical problems, and exhibiting technical skills and appropriate use of media. For the Research Workbook component, students will demonstrate in visual and written terms how personal research has led to an understanding of the topics or concepts being investigated; analyze critically the meaning of art forms; show awareness of the cultural, historical, and social dimensions of themes in more than one cultural context, and examine the art of other cultures for meaning and significance. This is a two-year course.

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**Visual Arts II IB, HL**

**Recommended Prerequisite: Visual Arts I IB**

**Grades Offered: 12**

**Credit: 1, 2**

**SDE Course Code: 3539**

**MNPS Course Code: ART3200**

IB Visual Arts provides students with opportunities to make personal, sociocultural, and aesthetic experiences meaningful through an emphasis on the production and understanding of art. There are two main components to this course: Studio Work and Research Workbooks. For Visual Arts A, Studio Work is the focus (70%), while Research Workbooks comprise 30% of the grade. For the Studio Work

component, students will identify a theme and produce works of art with imagination and creativity related to that theme through the exploration of a variety of visual phenomena, synthesis of art concepts and skills, solving formal and technical problems, and exhibiting technical skills and appropriate use of media. For the Research Workbook component, students will demonstrate in visual and written terms

how personal research has led to an understanding of the topics or concepts being investigated; analyze critically the meaning of art forms; show awareness of the cultural, historical, and social dimensions of themes in more than one cultural context; and examine the art of other cultures for meaning and significance. This is a two-year course.

## Glossary of IB Terms

**CAS:** A Diploma candidate must complete 150 hours of approved extracurricular activities, balanced among the areas of Creativity, Action, and Service. This is one of the three core requirements for the Diploma Programme, without which the candidate fails to receive the Diploma. Through CAS, students learn new skills or apply current experiences to new situations.

**Diploma Programme:** This IB Programme is designed for students in the last two years of high school. Diploma candidates must complete coursework and examinations in six subject areas and for three required core components: Extended Essay, CAS, and Theory of Knowledge.

**Extended Essay:** Each Diploma candidate must complete a 4,000-word research paper on a topic of interest and spend approximately 40 hours developing the paper under the direct supervision of a mentor teacher. This is one of the three core requirements for the Diploma Programme, without which the candidate will not receive the Diploma.

**External Assessment:** Assessors located across the world, and appointed and trained by the International Baccalaureate Organization (IBO), assess student examinations and other required student work by using common markschemes.

**HL:** Higher Level IB courses require 240 hours of study to complete; this is approximately two years of study in a Tennessee high school.

**IBCA:** The International Baccalaureate Curriculum and Assessment Centre is located in Cardiff, Wales. Ms. Monique Conn is the Academic Director.

**IBNA:** Our regional office, International Baccalaureate North America, is located in New York. The director is Bradley W. Richardson.

**Internal Assessment:** Required student work in the six subject areas will be completed by the Diploma candidates, marked by IB teachers using common markschemes, and monitored by the IBO.

**OCC:** The Online Curriculum Center is a password-protected web site for authorized schools only, designed to support the work of teachers in the three IB Programmes (Diploma, Middle Years Programme, Primary Years Programme).

**Programme:** Appearing in official IB materials, this is the international spelling of the word.

**SL:** Standard Level IB courses require 150 hours to complete, or approximately one year of study.

**Theory of Knowledge (TOK):** Diploma candidates must study approaches to learning and ways of knowing across the disciplines. Students will make presentations for internal assessments and write a TOK essay for external assessment. Instructors must be trained. Without this course, students may not earn the IB Diploma.