

# IB Diploma Program Requirements

The IB Diploma Program requires that a student completes six classes (some of which requires two years to complete) at an IB level. At least three, but no more than four must be higher level (HL). The courses must be taken during the junior/senior year and they may not be accelerated nor may credit be achieved by alternative means. Only students involved in the IB program may take these courses. All courses will earn level 4 GPA credit. An IB diploma program student must take a class from each group below.

- First Language (English HL)
- Second Language (Spanish HL, Spanish SL, Spanish ab initio SL)
- Humanities (History HL, Economics SL)
- Science (Biology HL, Chemistry SL, Physics SL)
- Math (Math HL, Math Studies SL)
- Art and Electives (Visual Arts HL, Visual Arts SL, or a 2<sup>nd</sup> course in another course area)

In addition to the core classes, students must complete the following to receive the IB diploma

- Theory of Knowledge (ToK) course – One semester in class the fall of the senior year and some seminars/independent study over the full program
- Creativity, Action, Service (CAS) – 150 hours of projects and activities over the time in the program meant to provide a means to apply course knowledge to real world situations and gain appreciation for how student affect the world and how the world affects them
- Extended Essay (EE) – A 4,000 word original paper on a topic of the students choice. Research and writing completed over the time in the program with the mentoring of a faculty/community member with a similar interest in the topic.

## IB Course Pathways at Coppell High School

### Group 1 – First Language

Course Path	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
English HL	English I (on level, PAP, or PAP/GT)	English I (on level, PAP, or PAP/GT)	IB English HL1	IB English HL2

### Group 2 – Second Language (choose one)

Course Path	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Spanish HL	Spanish II (on level or PAP)	Spanish III (on level or PAP)	IB Spanish HL1	IB Spanish HL2
Spanish SL	Spanish I (on level or PAP) or No Language	Spanish II (on level or PAP) or Spanish I (PAP)	IB Spanish SL1	IB Spanish SL2
Spanish ab initio SL	French, German, or Latin I	French, German, or Latin II	IB Spanish ab initio SL1	IB Spanish ab initio SL2

### Group 3 – Social Studies (choose one)

Course Path	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
History of the Americas HL	World Geography (on level or PAP) or AP Human Geography	World History (on level, PAP, or AP)	IB History HL1	IB History HL2

Economics SL	World Geography (on level or PAP) or AP Human Geography	World History (on level, PAP, or AP)	US History (on level or AP)	IB Economics SL
History of the Americas HL and Economics SL	World Geography (on level or PAP) or AP Human Geography	World History (on level, PAP, or AP)	IB History HL1	IB History HL2
			IB Economics SL	IB Economics SL (if not in 11 <sup>th</sup> )

Note(s):

\*\*Upon completion of the History of the Americas HL course, students will earn their required government credit, making a separate semester of government unnecessary.

\*\*If the student chooses the path including both History HL and Economics SL, they will not be able to take 1) a science path that includes two sciences or 2) either Visual Arts course.

#### **Group 4 – Science (choose one)**

Course Path	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Biology HL	Biology (on level or PAP)	Chemistry (on level or PAP)	IB Biology HL1 <b>and</b> Physics (on level or AP)	IB Biology HL2
	Biology (on level of PAP)	Conceptual Physics	IB Biology HL1 <b>and</b> Chemistry (on level or PAP)	IB Biology HL2
Chemistry SL	Biology (on level or PAP)	Chemistry (on level or PAP)	IB Chemistry SL1 <b>and</b> Physics (on level or AP)	IB Chemistry SL2
		Chemistry PAP and AP Biology		
		Conceptual Physics	IB Chemistry SL1	IB Chemistry SL2
Physics SL	Biology (on level or PAP)	Chemistry (on level or PAP)	IB Physics SL1	IB Physics SL2
		Chemistry PAP and AP Biology		
		Conceptual Physics	IB Physics SL1 <b>and</b> Chemistry (on level or AP)	IB Physics SL2
Chemistry SL and Physics SL	Biology (on level or PAP)	Chemistry (on level or PAP)	IB Chemistry SL1 <b>and</b> IB Physics SL1	IB Chemistry SL2 <b>and</b> IB Physics SL2
		Conceptual Physics		
		Chemistry PAP and AP Biology		

Note(s):

\*\*All students must complete a biology, chemistry, and physics by the end of the junior year.

\*\*These course paths are most applicable to the class of 2011 because there are likely to be additional HL science options in addition to Biology for the class of 2012 and beyond (Chemistry and Physics). Students who wish to position themselves to any take HL science will be best prepared by completing a biology, chemistry, and physics course by the end of the sophomore year. To clarify, taking all three sciences prior to the beginning of the IB program is NOT REQUIRED to participate in the IB program.

### Group 5 – Math (choose one)

Course Path	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Math HL	Geometry (PAP or PAP/GT)	Algebra II (PAP or PAP/GT)	IB Math HL1	IB Math HL2
	Algebra II (PAP or PAP/GT)	Pre Calculus (on level or PAP)	IB Math HL1	IB Math HL2
Math Studies SL	Geometry (on level or PAP)	Algebra II (on level or PAP)	IB Math Studies SL	Foundations of College Math
	Algebra I (on level or PAP)	Geometry (on level or PAP)	Algebra II (on level or PAP)	IB Math Studies SL

### Group 6 – Arts (choose one)

Course Path	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Visual Arts HL			IB Visual Arts HL1	IB Visual Arts HL2
Visual Arts SL			IB Visual Arts SL	IB Visual Arts SL (if not in 11 <sup>th</sup> )

Note(s):

\*\*It is suggested that a student wishing to take Visual Arts HL has some previous experience with some course in art or has a strong passion for the subject matter

\*\*If the student chooses the to take a group in Group 6, they will not be able to take 1) the social studies path including History and Economics or 2) the science path including chemistry and physics.

## Sample Junior/Senior IB Schedules

**\*\*DISCLAIMER – Every student schedule should be based on individual needs in terms of graduation requirements and interests. Please contact the IB coordinator ([interbacc@coppellisd.com](mailto:interbacc@coppellisd.com)) or a counselor if you have questions on how to reach the IB Diploma and meet all CISD graduation requirements\*\***

Student 1

<u>Junior Year</u>	<u>Senior Year</u>
English HL1	English HL2
Spanish HL1	Spanish HL2
History HL1	History HL2
Chemistry SL1	Chemistry SL2
Algebra II	Math Studies SL
Economics SL	TOK/????
Football	Football

Student 2

<u>Junior Year</u>	<u>Senior Year</u>
English HL1	English HL2
Spanish SL1	Spanish SL2
History HL1	History HL2
Physics SL1	Physics SL2
Math HL1	Math HL2
Economics SL	TOK/Speech
Band	Band

Student 3

<u>Junior Year</u>	<u>Senior Year</u>
English HL1	English HL2
Spanish SL1	Spanish SL2
History HL1	History HL2
Physics SL1	Physics SL2
Math HL1	Math HL2
Visual Arts HL1	Visual Arts HL2
Computer Tech Credit	TOK/Economics

Student 4

<u>Junior Year</u>	<u>Senior Year</u>
English HL1	English HL2
Spanish ab initio SL1	Spanish ab initio SL2
History HL1	History HL2
Biology HL1	Biology HL2
Math Studies SL	Found. College Math
Economics SL	PE/ Speech
Physics credit	TOK/????

Course description info for other part of course guide

## English HL1

Grade 11    Level: 4    Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB English HL sequence. Both years must be completed.* This course is focused on the examination of diverse pieces of literature. The course focuses on developing skills of literary criticism and analysis by treating literary works as products of art and their authors as craftsmen whose methods of production can be analyzed in a variety of ways and on a number of levels. This is achieved through the emphasis placed on exploring the means used by different authors to convey their subjects in the works studied. It is further reinforced by the comparative framework emphasized for the study of works in all parts of the IB program.

## Spanish HL1

Grade 11    Level: 4    Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Spanish HL sequence. Both years must be completed.* This course is best suited for a language learner with at least 3 years of Spanish experience. Students with an intention to use the language for a future career should complete this level of Spanish. This course is designed for students with advanced language skills who desire a more in-depth curriculum than the standard level with continued emphasis on critical thinking skills, speaking, writing, listening and reading. Texts will be chosen to reinforce these skills, build cultural awareness, and an appreciation of how culture affects language.

## Spanish SL1

Grade 11    Level: 4    Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Spanish SL sequence. Both years must be completed.* This course is for a language learner with at least 2 years of Spanish experience. The content will be instructed with emphasis placed on the development of critical thinking skills, the expanded use of reading, writing, speaking and listening skills and cultural awareness. Texts will be chosen to reinforce these skills, build cultural awareness, and an appreciation of how culture affects language.

## Spanish ab initio SL1

Grade 11    Level: 4    Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Spanish ab initio SL sequence. Both years must be completed.* The Spanish ab initio course is a language learning course for beginners, designed to be followed over two years by students who have no previous experience of learning Spanish. The main focus of the course is on the acquisition of Spanish language required for purposes and situations usual in everyday social interaction.

## History of the Americas HL1

Grade 11    Level: 4    Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB History of the Americas SL sequence. Both years must be completed.* This course focuses on an in-depth examination of the history of the United States, Canada, and Latin America from the colonial period to the present. It will also include a beginning treatment of 20<sup>th</sup> century world history topics. Student completing this course will receive US History credit. Development and application of intensive reading, writing, and research skills are required.

## Economics SL

## Grade 11-12 Level: 4      Credit: 1

Prerequisite: None, but requires participation in IB diploma program

This course will cover the fundamental concepts of economics. This includes key concepts studied in Microeconomics, Macroeconomics, and International Trade. The challenges and problems confronting developing countries will also be examined. The focus of the course is to explain economic phenomena through the use of diagrams, data analysis and the evaluation of economic material. It is intended to make students aware of the role of economics in real-world situations.

## Biology HL1

### Grade 11      Level: 4      Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Biology HL sequence. Both years must be completed.* As a group 4 IB experimental science, this course strives to combine academic rigor with the gaining of practical investigative skills including participation in an interdisciplinary project with all IB science students. The mandated HL topics covered in year one will include statistics, chemistry of life, cell structure and function, photosynthesis and respiration, DNA and protein synthesis, Mendelian genetics, mitosis and meiosis, evolution, and ecology. The HL optional topic will be biotechnology.

## Chemistry SL1

### Grade 11      Level: 4      Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Chemistry SL sequence. Both years must be completed.* As a group 4 IB experimental science, this course strives to combine academic rigor with the gaining of practical investigative skills including participation in an interdisciplinary project with all IB science students. The IB mandated core topics to be covered in this first year of the course are quantitative chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, and measurements and data processing. Groundwork will also be laid for further chemistry topics to be covered in the second year such as oxidation and reduction, organic chemistry, and the optional IB topics (modern analytical chemistry and chemistry in industry and technology).

## Physics SL1

### Grade 11      Level: 4      Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Physics SL sequence. Both years must be completed.* As a group 4 IB experimental science, this course strives to combine academic rigor with the acquisition of practical investigative skills, including participation in an interdisciplinary project with all IB science students. The focus of this first year of the course is a general survey of the physics including classical Newtonian mechanics, wave motion and interference, and electromagnetism. Groundwork will also be laid for further physics topics to be covered during year two such as quantum mechanics, Einsteinian relativity, and the optional IB topics (Astrophysics and Energy, Power, and Climate Change).

## Math HL1

### Grade 11      Level: 4      Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Math HL sequence. Both years must be completed.* Students should have a good background and/or strong interest in mathematics and be competent in a range of analytical and technical skills. The majority of these students will be expecting to include mathematics as a component in their university studies, either as a subject in its own right or within math driven fields like physics and engineering or fields where conceptual understanding of math is important like business and psychology. Topics in this course will range from advanced algebra to pre-calculus to statistics.

## Math Studies SL

### Grade 11-12 Level: 4      Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*Completion of Algebra II is suggested, but not required for taking this course.* It caters to 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. The course covers the application of mathematics through common real-world occurrences and to topics that relate to home, work and leisure situations.

## Visual Arts HL1

Grade 11 Level: 4 Credit: 1

Prerequisite: None, but requires participation in IB diploma program

*This course is year one of the two year IB Visual Arts HL sequence. Both years must be completed.* The focus of the IB Visual Arts course is to explore visual arts in a variety of cultural contexts in order to foster appreciation and understanding of diverse world cultures and traditions. The student will develop an understanding of art through research in the Investigation Workbook; production of art in a variety of media; and evaluation of past, present and emerging art works in their historical and cultural milieu. The course begins with teacher-structured activities to provide basic skills, gradually turning over the responsibility for learning and activities to the student. Once in the course, students will choose to focus on either research or art production to guide their studies.

## Visual Arts SL

Grade 11-12 Level: 4 Credit: 1

Prerequisite: None, but requires participation in IB diploma program

The focus of the IB Visual Arts course is to explore visual arts in a variety of cultural contexts in order to foster appreciation and understanding of diverse world cultures and traditions. The student will develop an understanding of art through research in the Investigation Workbook; production of art in a variety of media; and evaluation of past, present and emerging art works in their historical and cultural milieu. The course begins with teacher-structured activities to provide basic skills, gradually turning over the responsibility for learning and activities to the student. Once in the course, students will choose to focus on either research or art production to guide their studies.