

Plano East Senior High School  
INTERNATIONAL BACCALAUREATE PROGRAM



INFORMATION  
BOOKLET

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International Baccalaureate Program  
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# IB Organization

## MISSION STATEMENT:

The International Baccalaureate Organization aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

To this end the IBO works with schools, governments and international organizations to develop challenging programmes of international education and rigorous assessment.

These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

# THE INTERNATIONAL BACCALAUREATE PROGRAM

The International Baccalaureate Program is a rigorous course of study designed to meet the needs of highly motivated secondary students and to promote international understanding. The effectiveness of the IB program is due not only to the depth of the individual courses, but also to the comprehensive nature of the program. Unlike other honors programs, the IB Program requires each student to take courses in six academic areas. To qualify for the International Baccalaureate Diploma, students must take examinations in six subject areas, participate in the Creativity, Action, and Service (CAS) program, and write an extended essay during the 11<sup>th</sup> and 12<sup>th</sup> grade years.

The diploma candidate must also take a unique course known as Theory of Knowledge. In this course, students explore the connections and similarities between the various subjects, learn to think, and apply interrelated concepts.

Many students earning the IB Diploma are awarded advanced college credit at prestigious universities around the world. Many highly competitive colleges and universities recognize the IB Diploma for admissions and/or advanced standing. Texas public universities award 24 credit hours for an IB diploma in which all tests have earned at least a grade of 4 (on a 1-7 scale). An increasing number of states are following suit by awarding significant credit for the IB diploma.

PISD students enter the International Honors Program at either Clark High School or Williams High School in the ninth-grade followed by the two-year IB Program at Plano East Senior High. IB students may also participate in the Advanced Placement (AP) Program in grades 11 and 12.

Certified as an IB school in July 1995, the Plano East program carefully screens students on the basis of academic potential. All students admitted to the International Honors and the IB programs are full diploma candidates.

## The IB Curriculum:

Six subject groups comprise the core of the IB curriculum. The IB Diploma candidate is required to select one subject from each of the six areas.

Group 1: Language A	English
Group 2: Language B	French, Spanish
Group 3: Individuals and Societies	History, Economics
Group 4: Experimental Sciences	Biology, Chemistry, Physics, Environmental Science
Group 5: Mathematics	Calculus, Mathematical Methods, Mathematical Studies
Group 6: Arts & Electives	Visual Arts, Environmental Systems, Computer Science, (or a second group 3 or 4)

At least three and not more than four of the six subjects are taken at the Higher Level (HL) (two-year course), the others at the Standard Level (SL) (one-year course). Each examined subject is graded on a scale of 1 (minimum) to 7 (maximum). The award of the Diploma requires a minimum total of 24 points.

## IB DIPLOMA REQUIREMENTS

To be eligible for the award of the IB Diploma at the conclusion of the senior year, all candidates, during the 11<sup>th</sup> and 12<sup>th</sup> grades, must

- successfully complete prescribed course work and an examination from each of the above groups,
- submit an extended essay of 4000 words in one of the subjects of the IB curriculum,
- complete the Theory of Knowledge (TOK) course, and
- complete 150 Creativity, Action, and Service (CAS) hours.

## ADMISSIONS AND SELECTION PROCESS

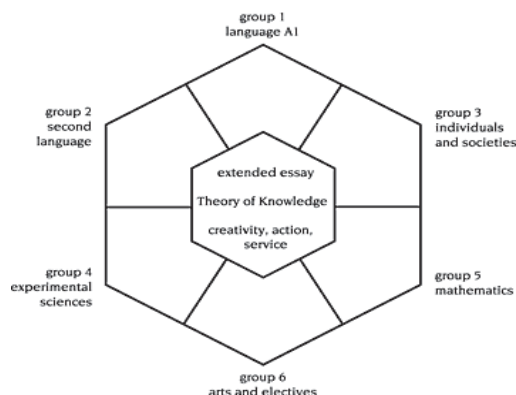
Students from throughout Plano ISD are eligible to apply for the International Honors programs at Clark High School and Williams High School and in the IB Program at Plano East Senior High School. Students must submit a completed application packet during the first semester of their eighth-grade year. Selection will be based on the following criteria:

- demonstrated excellence in academic performance,
- outstanding scores on standardized achievement tests
- a graded essay ( this essay may written for any subject and the length is not critical)
- parental consent and support.

Orientation sessions and applications will be made available to interested eighth-graders and their parents in October of each year. (A timetable for submission of the application, committee review, notification of committee results, and registration will be available at the same time.)

## The Diploma Programme Hexagon

The programme has the strengths of a traditional and broad curriculum, but with three important additional features, shown at the centre of the hexagonal curriculum model.



### Theory of Knowledge (TOK)

is an interdisciplinary requirement intended to stimulate critical reflection on the knowledge and experience gained inside and outside the classroom. The course challenges students to question the bases of knowledge, to be aware of subjective and ideological biases, to develop the ability to analyze evidence that is expressed in rational argument. It is a key element in encouraging them to appreciate other cultural perspectives. The course is unique to the IBO, which recommends at least 100 hours of teaching time spanning the programme's two years.

### Creativity, Action, Service (CAS)

The IBO's goal is to educate the whole person and foster responsible, compassionate citizens. The CAS programme encourages students to share their energy and special talents with others: students may, for example, participate in theatre or musical productions, sports and community service activities. Students should, through these activities, develop greater awareness of themselves, concern for others, and the ability to work cooperatively with other people.

### An extended essay of 4,000 words

Each student has the opportunity to investigate a topic of special interest. The essay requirement acquaints diploma candidates with the kind of independent research and writing skills expected by universities. The IBO recommends that a student devote a total of about 40 hours of private study and writing time to the essay, which may be written in one of 60 subjects, including many languages. The essay permits students to deepen their programmes of study, for example by selecting a topic in one of their higher level (HL) courses. Or they might add breadth to their academic experience by electing to write in a subject not included in their programme choices.

[The six academic subjects](#) around the curriculum model are studied concurrently; students are required to study both the humanities and the sciences.

## The six academic subjects

These are studied concurrently and students are required to study both the humanities and the sciences. Diploma candidates must select one subject from each of the six groups, although a second subject from groups 1 to 5 may be substituted for group 6. At least three but not more than four are taken at higher level (HL), while the others are standard level (SL); HL courses represent a minimum of 240 teaching hours, SL courses cover 150 hours. Students are thus able to explore some subjects in depth and others more broadly, a deliberate compromise between the early specialization of some national systems and the breadth found in others. The science-oriented student is challenged to learn a foreign language and the natural linguist becomes familiar with laboratory procedures. The subjects are continually reviewed and revised to meet contemporary needs. The list below serves as a current guide only.

### Group 1 - language A1

More than 80 languages have been offered for examination as part of the IBO's policy of encouraging students to maintain strong ties to their own cultures. Very good writing and oral skills and respect for the literary heritage of the student's first language are complemented by the international perspective given through world literature studies.

### Group 2 – second language

All diploma candidates are examined in a second language. Several options accommodate near-bilingual students with a very high level of fluency, genuine second language learners with previous experience learning the language, and beginners. The principal aim for the subjects in group 2 is to enable students to use the language in a range of contexts and for many purposes; the courses focus on written and spoken communication.

### Group 3 – individuals and societies

Subjects included in this group are: economics, history

### Group 4 – experimental sciences

The subjects available in group 4 are: biology, chemistry, physics, environmental science). Practical laboratory skills are developed and collaborative learning is encouraged through an interdisciplinary group project. Students develop an awareness of moral and ethical issues and a sense of social responsibility is fostered by examining local and global issues.

### Group 5 – mathematics and computer science

All candidates for a diploma are required to complete a mathematics course, and four options are available to cater for different abilities and levels of student interest. Each course aims to deepen a student's understanding of mathematics as a discipline and to promote confidence and facility in the use of mathematical language. Computer science is an elective subject in group 5; it is not compulsory.

### Group 6 – the arts

This includes visual arts, music and theatre arts, with emphasis placed on practical production by the student and exploration of a range of creative work in a global context. Students may elect certain subjects from other groups such as computer science and environmental systems (SL)

## PROFILE OF AN INTERNATIONAL BACCALAUREATE STUDENT

At Plano East Senior High School, we encourage students who want to challenge themselves academically to seriously consider making application to our International Baccalaureate program. In order to help each student (and his/her parents) make a realistic decision about pursuing the IB program, we have provided a profile of what we believe would be a successful IB student.

### The successful International Baccalaureate student would...

...**be self-motivated and family supported** (the desire to pursue and succeed in the IB Program must ultimately come from within the student);

...**have a desire to challenge him/herself intellectually and academically** (someone who just wants to “get by” or who is “going through the motions” to get into college will be uncomfortable in an IB environment);

...**be a competent reader** (so as not to struggle with more difficult reading in IB courses, the student should be reading at or above his or her respective grade level);

...**speak and write the English language clearly and effectively** (since English is the primary language of the IB program at Plano East and since the IB program demands clear and effective communication skills across the curriculum, this asset is essential to all IB students);

...**possess (or be willing to acquire) analytical/critical thinking skills** (since much of the IB curriculum requires investigative and discovery learning, these skills are essential);

...**have proficient written and oral skills in either French or Spanish** (it is required that all IB language students will have completed four or five years of study in a second language);

...**possess (or be willing to acquire) good time and stress management skills;**

...**be open to new ideas and tolerant of different beliefs;**

...**participate in school and community activities.**

Both students and parents need to realize that the IB Diploma program is not for every student. Due to the very nature of the IB (“an internationally recognized curriculum and examination program”), each student’s performance will be assessed in large part on pre-established standards set by the International Baccalaureate Organization and that failure to meet these standards could result in poor or failing grades. Additionally, the student must be aware of the fact that he/she must take the IB exam in May of the final year of each IB course in which he/she is enrolled. Although IB teachers are committed to helping all their students succeed, they will not be able to “water down” or “slow down” their courses to accommodate those students who are unwilling to maintain the necessary pace or rigor. All IB students must be prepared for the IB exam(s). This is not to say that only straight “A” students or only gifted and talented (GT) students or only high-IQ students will survive. The student who has demonstrated adequate past academic performance, who is highly motivated, and who has acquired good time and stress management skills should succeed in his/her IB courses.

### **We hope that students who participate in the International Baccalaureate Program develop to become:**

<b>INQUIRERS</b>	Who acquire the skills necessary to conduct purposeful, constructive research	
<b>THINKERS</b>	Who exercise initiative in applying thinking skills critically and creatively to make sound decisions and to solve complex problems	
<b>COMMUNICATORS</b>	Who receive and express ideas and information confidently in more than one language, including	the language of mathematical symbols
<b>RISK TAKERS</b>	Who approach unfamiliar situations without anxiety, have confidence and independence, are things in which they believe	courageous and articulate in defending
<b>KNOWLEDGABLE</b>	Who have spent time in school exploring themes with global relevance and importance, and have knowledge	acquired a critical mass of significant
<b>PRINCIPLED</b>	Who have a sound grasp of the principles of moral reasoning, integrity, honesty, and a sense of	fairness and justice
<b>CARING</b>	Who show sensitivity towards the needs and feelings of others and have a personal	commitment to action and service

## IB ASSESSMENT

**Grades & Methods of Assessment:** It is important to keep in mind that this is, indeed, an *international* system, and as such the final marks that the students received for each IB course they have completed, represent how successfully they have met IB's standards – standards that apply to students in over 1,200 IB schools all around the United States and the world. Plano Independent School District recognizes the additional rigor necessary in IB courses by weighting grades on a 5.0 grade point average (GPA) scale. All IB 11<sup>th</sup> and 12<sup>th</sup> grade IB courses are on a 5.0 GPA scale except for IB Physics, IB Math Studies, and IB Pre-Calculus. These three courses are on the 4.5 (honors) GPA scale.

Grades in IB courses are determined by using a combination of sources. Part of the marking period grades come from assignments, quizzes and tests which are generated and evaluated by the subject teacher at Plano East. In addition, each IB subject calls for the teacher to contribute a percentage of the final IB mark by assigning and then “internally assessing” IB-generated assignments and projects according to given IB criteria. The percentage varies from subject to subject, but generally, a teacher’s “internal assessment” of IB-generated assignments accounts for between 20% and 30% of the final mark. For example, IB English and IB foreign language teachers assign and grade prescribed oral presentations; IB science teachers assess student notebooks of practical laboratory work; IB math teachers score prescribed portfolios or projects. The teachers’ “internal assessment” marks for all IB subjects are submitted to International Baccalaureate Curriculum and Assessment (IBCA), headquartered in Cardiff, Wales, in early April of each year. In addition, IBCA requires that each teacher submit samples of student work so that the teachers’ assessments can be checked for validity against the published criteria.

In addition to teacher-generated and IB-generated “internal assessments,” each IB course has official IB assignments and exams that are “externally assessed” by designated IB examiners around the world, a system coordinated by IBCA. These “externally assessed” assignments and exams are considered “independent entities” and are not “averaged in” with, or contribute to student’s official PISD transcript and overall grade point average, per se. Instead, IBCA, issues its own final marks and IB Diplomas to those students who have successfully met the IB criteria. In other words, the IB assessment system is totally separate from the PISD school system.

The results of the IB exams completed in May are published in July. Students are able to access their individual results on a special IB web site. Upon the request of each student, his or her IB results are then forwarded to the university he or she will be attending in the fall. Universities can then use the results to award course credit or advanced standing, depending on the student’s performance on IB exams in relation to the results recognition policy of each university. Since IB results are posted well after most seniors have been accepted by their respective colleges, their actual performance on the IB exams has nothing to do with *college admission*.

The IB also has its own *method* of assessment – one that is *criterion-based*, not norm-based. What this means is that IBCA publishes a set of grading criteria for each IB assignment exam it administers. IB examiners then mark each piece of student work based on how successfully – or to what achievement level – the student has performed according to the given criteria. In this way, all IB students around the world are graded the same way for each piece of work they submit. IB teachers are also familiar with the various assessment criteria and achievement levels, and are always encouraged to share these with their students well before any assignment is due or exam is taken. In other words, the IB grading system is very transparent: anyone who wants to know how examiners and/or IB teachers will be grading any IB-required piece of student work has access to the criteria. Again, IB teachers may choose to use this system, at least in part, to determine PISD grades, but the reverse is not true: only IB assessment criteria may be used to make the various IB grade components.

## IB EXAMS

The majority of the *externally* assessed work is the IB exams that our students will be writing in May. Most questions they answer on their IB exams will be in the form of essays, regardless of which IB subject is being examined. This approach gives students more of an opportunity to *explain what they know* about a given topic rather than demonstrating what they don’t know by bubbling in answers on a multiple choice exam. In addition, most IB subject exams are divided into two or three different parts or “papers.” Usually, these papers are written on two consecutive days: the afternoon of the first designated exam date, and the morning of the next date. After each paper of the subject exam is completed by the students, the “scripts” (written answers) are sent to the assigned examiners. Each separate paper of a subject exam is assessed by a different examiner. When all examiners have finished assessing the papers sent them, they, in turn, send the marked scripts to Cardiff, where IBCA reviews and tabulates the marks for each student in each subject. As with the internal assessment marks of IB teachers being checked for validity, so are those of the IB examiners. After a grade award committee review, final results are published early in July.

IB assessment system is a very well thought out program of quality control which encourages both students and teachers to pursue high, but very reachable international academic standards. We feel that the demands of such a system are certainly worth the effort.

## International Baccalaureate Four Year Options

(All Variations Not Listed)

Subject	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Group: 1</b>				
<b>English</b>	IH English I	IH English II	IB English III	IB English IV (HL)
The IB English courses address a world literature curriculum, specific writing skills and oral components. PISD requires 4 units.				
<b>Group: 2</b>				
<b>Second Language</b>	Spanish I or II <b>AND/OR</b> French I or II	H/IH/Spanish II or III <b>AND/OR</b> H/IH/French II or III	Spanish III H/IH/AP, IB Span IV (SL after Spanish IV possible) <b>AND/OR</b> French III H/IH/AP, IB French IV (SL after French IV possible)	IB Spanish IV, V (SL or HL) <b>AND/OR</b> IB French IV, V (SL or HL)
No IB Spanish II or IB French II offered at 11 <sup>th</sup> grade level. 3 units required for Distinguished Achievement Program. 4 – 5 Units required for IB Exam (SL) unless a native speaker or very advanced. In a few cases, an HL exam in Language B may be appropriate.				
<b>Group : 3</b>				
<b>Social Studies</b>	H/IH/AP World Geography <b>OR</b> Humanities (2 yrs. = World History)	H/IH/AP World History (or ** AP World History) <b>OR</b> Humanities (2 <sup>nd</sup> yr) and H/IH/AP World Geography (or ** AP World Geography)	IB US History <b>AND/OR</b> IB Economics I (SL)  Please note: Regular government credit may be earned within the IB US History Course.	IB World Area Studies (HL)
PISD requires 4 units: World History, World Geography, American History, ½ US Government, and ½ Economics. A second course in <b>Social Studies</b> is an appropriate 6 <sup>th</sup> Subject Option for IB. ** AP World History or AP World Geography in the 10 <sup>th</sup> grade are options only and are not required for IB.				

<b>Subject</b>	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Group : 4</b>				
<b>Science</b>	H/IH/AP Biology I	H/IH/AP Chemistry I	** IB Physics I (SL) <b>OR</b> IB Chem II (2 hrs) (SL) <b>OR</b> IB Biology II (2 hrs) (SL) <b>OR</b> * IB Environmental Science (SL)	IB Chem II (2 hrs) (HL) <b>OR</b> IB Biology II (2 hrs) (HL) **IB Physics (SL) <b>OR</b> *IB Environmental Science (SL)
<p>PISD currently requires 3 units. 4 units are required beginning with the graduating class of 2012.  A second course in Experimental Science is an appropriate 6<sup>th</sup> group option for IB.  * IB Environmental Science (SL) is a one year course which may be taken either the junior or senior year.  <b>** Regular Physics, Honors Physics, or IB Physics is required to meet PISD requirements. IB Physics is only necessary if a student wishes to take the IB Physics SL Exam.</b></p>				
<b>Group: 5</b>				
<b>Mathematics</b>	H/IH/AP Algebra I <b>OR</b> H/IH/AP Geometry <b>OR</b> IH Algebra II	H/IH/AP Geometry <b>OR</b> H/IH/AP Algebra II <b>OR</b> IH Pre-Calculus	H/IH/AP Algebra II <b>OR</b> IB Math Studies (SL) <b>OR</b> Regular or H/IH/AP Pre-Cal <b>OR</b> AP Statistics	IB Math Studies (SL) <b>OR</b> Other PISD Requirements <b>OR</b> IB Calculus (SL or HL)
<p>PISD currently requires 3 units. 4 units are required beginning with the graduating class of 2012.</p>				
<b>Group : 6</b>				
<b>Arts and Elective</b>	Speech or Debate <b>OR</b> Other PISD Requirements	Art I or II <b>OR</b> Other PISD Requirements	*IB Art III <b>OR</b> **IB Computer Science I (SL)	*IB Art IV (HL) <b>OR</b> **IB Computer Science II (HL)
<p>* If you take IB Art III, you must take IB Art IV as a senior.  ** You can have SL or HL in Computer Science, but not both.</p>				
<b>Theory of Knowledge – Unique IB Course</b>				
<b>(This course is required of all IB students)</b>				
				IB Theory of Knowledge (2 semesters required)

## INTERNATIONAL BACCALAUREATE

<b>Path from IB Courses to IB Exams</b>			
<b>11<sup>th</sup> Grade Courses</b>	<b>12<sup>th</sup> Grade Courses</b>	<b>IB Exams</b>	<b>Year of Exam</b>
<b>Group 1: English</b>			
IB English III +	IB English IV	English A1 HL	12 <sup>th</sup> Grade
<b>Group 2: Second Language</b>			
IB Spanish IV +	(No course)	Spanish B SL	11 <sup>th</sup> Grade
H/IH/AP Spanish III +	IB Spanish IV	Spanish B SL	12 <sup>th</sup> Grade
IB Spanish IV +	IB Spanish V	Spanish B SL or HL	12 <sup>th</sup> Grade
IB French IV +	(No course)	French B SL	11 <sup>th</sup> Grade
H/IH/AP French III +	French IV	French B SL	12 <sup>th</sup> Grade
IB French IV +	French V	French B HL	12 <sup>th</sup> Grade
<b>Group 3: Social Studies</b>			
IB US History +	IB World Area Studies	History of Americas HL	12 <sup>th</sup> Grade
*IB Economics 1 (either 11 <sup>th</sup> or 12 <sup>th</sup> grade)		Economics SL	11 <sup>th</sup> or 12 <sup>th</sup> Grade
<b>Group 4: Science</b>			
IB Biology 2 (Double Block)		Biology SL	11 <sup>th</sup> Grade
	IB Biology 2 (Double Block)	Biology HL	12 <sup>th</sup> Grade
IB Chemistry 2 (Double Block)		Chemistry SL	11 <sup>th</sup> Grade
	IB Chemistry 2 (Double Block)	Chemistry HL	12 <sup>th</sup> Grade
** IB Physics SL (either 11 <sup>th</sup> or 12 <sup>th</sup> grade)		Physics SL	*11 <sup>th</sup> or 12 <sup>th</sup> Grade
IB Physics SL	IB Physics HL	IB Physics HL	12 <sup>th</sup> Grade
Environmental Science SL (either 11 <sup>th</sup> or 12 <sup>th</sup> grade)		Environmental Science SL	11 <sup>th</sup> or 12 <sup>th</sup> Grade
(**Prerequisite: Alg. 1-H and Alg. 2 – H and Geometry H, 2 units of science, concurrent enrollment in Pre-Calculus) Since all IB students take IH Biology 1 in the 9 <sup>th</sup> grade and IH Chemistry 1 in the 10 <sup>th</sup> grade, regular Physics or Honor Physics or IB Physics must be taken in the 11 <sup>th</sup> or 12 <sup>th</sup> grade to meet PISD graduation requirements. * IB Physics is only necessary if a student wishes to take the IB Physics SL exam.			
<b>Group 5: Mathematics</b>			
Reg/H/IB/AP Pre-Calculus +	IB Calculus SL	Mathematics SL	12 <sup>th</sup> Grade
H/IH/AP Pre-Calculus +	IB Calculus HL	Mathematics HL	12 <sup>th</sup> Grade
IB Math Studies (either 11 <sup>th</sup> or 12 <sup>th</sup> grade) (Pre-requisite Algebra 2)		Math Studies SL	*11 <sup>th</sup> or 12 <sup>th</sup> Grade
<b>Group 6: Arts and Electives</b>			
IB Computer Science 1 +	IB Computer Science 2	Computer Science HL	12 <sup>th</sup> Grade
IB Computer Science 1 (May be taken in either 11 <sup>th</sup> or 12 <sup>th</sup> grade) (Algebra 1 and Geometry are Pre-requisites)		Computer Science SL	*11 <sup>th</sup> or 12 <sup>th</sup> Grade
IB Art Design III +	IB Art Design IV (Art I and Art II are Pre-requisites)	Art Design HL	12 <sup>th</sup> Grade
*11 <sup>th</sup> or 12 <sup>th</sup> Grade – Exam may be taken either year, BUT THE STUDENT MUST SIT FOR THE EXAM AT THE END OF THE YEAR THE COURSE IS TAKEN.			
“+” indicates that the student must take an 11 <sup>th</sup> grade PLUS a 12 <sup>th</sup> grade course before he/she sits for the exam.			

# Worksheet

\_\_\_\_\_  
Last Name

\_\_\_\_\_  
First Name

\_\_\_\_\_  
Graduation Year

\_\_\_\_\_  
ID #

\_\_\_\_\_  
Feeder School

## IB Diploma Program Plan

### I. Directions for Choosing Your Six (6) IB Exams:

1. Choose 2 or more higher level exams. (See the reverse side for the correct name of the HL exams.)
2. Indicate if you're taking Spanish or French by placing an "X" in the line provided.
3. Choose 2 more standard level exams. (See the reverse side for the correct name of the SL exams.)
4. Place an "X" in the box to the right of your SL exam if you plan to take the exam at the end of 11<sup>th</sup> grade.
5. To ensure that you have chosen one exam from each of the six IB groups, place an "X" before each group number.

#### SIX IB GROUPS

- X (1) English  
 \_\_\_ (2) Foreign Language  
 \_\_\_ (3) Social Sciences  
 \_\_\_ (4) Science  
 \_\_\_ (5) Math  
 \_\_\_ (6) Arts and Electives

(a second group 3 or 4 can substitute for group 6)

Higher Level (HL)	Standard Level (SL)	
(1) English A1		

### II. Directions for Choosing your 11<sup>th</sup> and 12<sup>th</sup> Grade IB Courses:

1. Use the reverse side to match IB exams to 11<sup>th</sup> and 12<sup>th</sup> grade IB courses.
2. Place "X's" in front of the 11<sup>th</sup> and 12<sup>th</sup> grade courses. (Eng. 3 IB, Eng 4 IB, US History IB, and Theory of Knowledge are already checked since everyone will take these courses.)

#### 11<sup>th</sup> Grade IB Course Choices

	IB Group	Course	Number
X	1	English 3 IB	103061
	2	Spanish 3 IB	503461
	2	Spanish 4 IB	504461
	2	French 3 IB	503161
	2	French 4 IB	504161
	3	US History IB	251061
	3	Economics IB	255061
	4	Chemistry 2 IB – Class	205261
	4	Chemistry 2 IB – Lab	205261
	4	Biology 2 IB – Class	204161
	4	Biology 2 IB – Lab	204161
	4	Physics (SL) IB	206061
	4	Environmental Science	20861
	5	Algebra 2/H/IB/AP	154061
	5	Regulars Pre-Calculus	155001
	5	Pre-Calculus H/IB/AP	155061
	5	Math Studies IB	158061
	5	Calculus IB (SL)	158161
	6	Computer Science 1 IB	401061
	6	IB Art 3	456401

#### 12<sup>th</sup> Grade IB Course Choices

	IB Group	Course	Number
X	Core	Theory of Knowledge	952461
X	1	English 4 IB	104061
	2	Spanish 4 IB	504461
	2	Spanish 5 IB	505461
	2	French 4 IB	504161
	2	French 5 IB	505161
	3	World Area Studies	253161
	3	Economics 1 IB	255061
	4	Chemistry 2 IB - Class	205261
	4	Chemistry 2 IB – Lab	205261
	4	Biology 2 IB – Class	204161
	4	Biology 2 IB – Lab	204161
	4	Environmental Science	20861
	4	Physics (SL or HL) IB	206061
	5	Math Studies IB	158061
	5	Calculus IB (SL)	158161
	5	Calculus IB (HL)	159061
	6	Computer Science 1 IB	401061
	6	Computer Science 2 IB	402061
	6	IB Art 4	456451

**Important:** It is the student's responsibility to work with his or her counselor to ensure that all graduation requirements have been or will be met. This plan focuses on meeting the IB requirements only.

Although not recommended, a student may choose 4 higher level and 2 standard level exams.





**206161**      **IB Physics HL (Second year)**      **12**      **1**  
**Prerequisite:**      **1 unit of IB Physics SL, 2 credits of science, 1 credit of Pre-Calculus, and instructor approval**

IB Physics HL (high level) is a second year continuation of the first year of IB physics (SL standard level). It builds to provide a deeper understanding and additional applications of the topics covered in the first year Physics IB SL. IB Physics HL is a basic introduction to AC current, quantum mechanics, nuclear physics, digital technology, with an expansion on modern physics with a section on modern communication. This course will require students to be assessed internally by the IB organization standards. Students must build and submit a lab portfolio from both years for external moderation. Physics IB HL students will also participate in a Group 4 Project. Students whom are enrolled in this course will not take the SL exam at the end of their junior year but will wait to take the Physics HL exam in May of their senior year.

**208261**      **Environmental Science IB SL**      **11 - 12**      **1**  
**Prerequisite:**      **Algebra I (1 credit), Biology (1 credit) and Chemistry (1 credit)**

The Environmental Science IB SL course will provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

Environmental Science IB SL is interdisciplinary; it embraces a wide variety of topics from different areas of study. There are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. This course will prepare the student to take the Environmental Science SL exam.

### **GROUP 5: Mathematics**

**158061**      **IB Math Studies**      **11 – 12**      **1**  
**Prerequisite:**      **Algebra I, Geometry, and Algebra II or Algebra II**

IB Math Studies students study the following concepts: Three major trigonometry functions, statistics; probability, functions, logic, set theory, 3-D graphing and applications. Several small projects and one major related to application. IB Math Studies prepares student to take the IB Math Studies SL exam.

**155061**      **IB Pre-Calculus**      **11**      **1**  
**Prerequisite:**      **Algebra II – H**

Major concepts studied: An in-depth study of functions, relations, graphing and applications, coordinate geometry, trigonometry, sequence and series, data analysis. This course is designed to prepare students for IB Math Methods and the IB Calculus courses.

**158161**      **IB Calculus SL**      **12**      **1**  
**Prerequisite:**      **Pre-Calculus, teacher approval and appropriate test scores**

IB Math Methods may be taught together with Calculus AB – AP (15915A). This course is the study of elementary functions; limit of a function; derivative; integral and techniques of integration; and applications of calculus to real-world problems in the fields of life science, business and economics, social science, physics, and engineering. IB Math Methods students are assessed internally and must submit a portfolio. This course prepares students for the IB Math Methods SL exam and for the AP Calculus AB exam.

**159061**      **IB Calculus HL**      **12**      **1**  
**Prerequisite:**      **IB Pre-Calculus/Honors, teacher approval and appropriate test scores**

IB Calculus covers all the topics in Calculus AB, but is more extensive. Students cover the additional topics of vector functions, polar coordinates, and probability and statistics. IB Calculus students are also assessed internally by the IB Organization standards and students must submit a portfolio. This course prepares the student to take the IB Mathematics (Calculus) HL exam and for the AP Calculus AB exam.

### **GROUP 6: Arts and Electives**

**456401**      **IB Art Design III**      **11**      **1**  
**Prerequisite:**      **Art I**

IB Art Design III and IV are taken over two years to prepare students for the IB Art Higher level exam. IB Art Design III is designed for students who are seriously interested in the actual experience of creating and researching art. This course will be individually charted to meet the needs and interests of each student. IB Art is designed to include independent research along with instruction in advanced art techniques and media. This course is the first course necessary for preparation for the IB Art Higher level exam. The approximate supply cost is \$50.00.

**456451**      **IB Art Design IV**      **12**      **1**  
**Prerequisite:**      **IB Art Design III**

IB Art Design IV is the second year of IB Art. It is designed for students who are seriously interested in the actual experience of creating and researching art. This course will be individually charted to meet the needs and interests of each student. IB Art is designed to include independent research along with instruction in advanced art techniques and media. This course is the second course necessary for preparation for the IB Art Higher Level exam. The approximate supply cost is \$50.00.



Plano East Senior High School  
**INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM**  
**FREQUENTLY ASKED QUESTIONS**

**GENERAL QUESTION**

**What is the International Baccalaureate Diploma Program?**

A demanding, pre-university course of study that leads to examinations.

**Why is Plano East Senior High the only senior high that has the IB Program ?**

The staff at Plano East, not wanting to become complacent with its very successful Advanced Placement Program, challenged themselves to learn about other respected programs which would give students another choice. The IB program continued to resurface as a program that is not only rigorous and well-respected nationally, but one that has gained international recognition as a complete, well-rounded liberal arts education. The administration and faculty at Plano East researched the IB program, made application for accreditation, visited existing IB schools, trained teachers, underwent a two-day site visit from representatives from the New York office, and were awarded the status of participating IB school. The process takes about five years.

**Who is the program designed for?**

It is designed for highly motivated students who seek the challenge of a well-rounded, liberal arts, international curriculum.

**How many years does it take to earn the IB Diploma?**

The program is a comprehensive two-year international curriculum started at Plano East Senior High at the eleventh-grade. Students in the Plano ISD prepare and gain the edge for the program by entering the International Honors program at the ninth-grade at Clark or Williams High Schools.

**What is the IB curriculum's focus?**

Humanities and sciences. Diploma candidates must select one subject from each of the six IB groups: Language A1, Second Language, Individuals and Societies, Experimental Sciences, Mathematics, and Arts and Electives. At least three but not more than four are taken at the Higher Level (HL), while the others are standard level (SL). HL courses represent a minimum of 240 teaching hours (2 years) and SL courses cover 150 hours (one year.)

**Why are some courses taken at the higher level and others at the standard level?**

This allows students to explore some subjects in depth and others more broadly, a deliberate compromise between the early specialization of some national systems and the breadth found in others. The science-oriented student is challenged to learn a foreign language and the natural linguist becomes familiar with laboratory procedures.

**What are the benefits of earning an IB Diploma?**

The Diploma Program equips students with the skills and attitudes necessary for success in higher education and employment. The IB Organization's goal is to provide students with the values and opportunities that will enable them to develop sound judgment, make wise choices, and respect others in the global community. Just like Advance Placement, each university sets its own criteria for awarding college credit and/or scholarships. Students and parents can view each university's IB policy for awarding credit by calling up the IBO web page, [www.ibo.org](http://www.ibo.org).

**How is the International Baccalaureate (IB) Diploma Program SIMILAR to the College Board Advanced Placement Program?**

Both are excellent preparations for higher education. Both offer rigorous curricula. Success in either program is an excellent indicator for success in college. Both give students the opportunity to place out of college courses. Both are taught by specially trained teachers. Both require several hours of homework or off campus preparation each day.

**How is the International Baccalaureate (IB) Diploma Program DIFFERENT from the College Board Advanced Placement (AP) Program?**

AP students can choose one or more AP exams/courses to take. IB students must take one course (which leads to an external exam) from each of the six IB subject groups. IB students must also write an extended essay of some 4,000 words, take a Theory of Knowledge course during their senior year, and complete 150 Creative, Action, and Service (CAS) hours during the 11<sup>th</sup> and 12<sup>th</sup> grade years. AP assesses students with exams in May. IB also assesses students with exams in May, but IB also requires that students be assessed internally through the form of written papers, one-on-one oral examinations, portfolios, dossiers, projects, etc.

**Can a student who is in the IB Program also take AP courses and examinations?**

Yes, most do.

**Can a student who is in the AP Program also take IB courses and examinations?**

No, Plano East offers a complete diploma program only. Students who want to choose one or a few rigorous courses are better served by taking AP courses and exams.

**Does the International Baccalaureate Diploma replace the state of Texas or Plano ISD graduation requirements?**

No, but most of the IB courses will fulfill many of the Texas and PISD graduation requirements. It is very important for IB students to work closely with their school counselors to ensure that all graduation requirements are met. The IB Coordinator will work closely with the IB students to ensure that all IB Diploma internal and external requirements are met.

**How much does it cost to be in the IB Diploma Program?**

There is no additional tuition for Plano ISD residents. Like AP, student must pay for their IB exams. On average a student will pay about \$450 for all six exams, per capita & registration fees, Extended Essay fee, and Theory of Knowledge fee.

**What percentage of Plano East Senior High IB students earn the IB Diploma?**

90% - 95% of diploma candidates (seniors) earn the IB Diploma. This is greater than the world average of 78%. Plano East has produced the largest number of diplomas in Texas in 1998, 2000, 2001, 2002 and 2003. Plano East Senior High IB students typically score higher than the world average on 15 out of 19 exam subjects.

Plano East Senior High School  
**INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM**  
**FREQUENTLY ASKED QUESTIONS**

**SPECIFIC TO INCOMING JUNIORS**

**Who will guide me to my 11<sup>th</sup> grade courses?**

Your 10<sup>th</sup> grade counselor in consultation with the IB coordinator.

**If I have a question about my IB Diploma plan, when will I be able to talk with the IB coordinator?**

Anytime by email or telephone: [theresa.biggs@pisd.edu](mailto:theresa.biggs@pisd.edu) / (469)752-9120. Ms. Biggs will make a spring visit to 9<sup>th</sup> and 10<sup>th</sup> grade English classes to introduce the diploma plan.

**Who do I see if there is something wrong with my schedule after I pick it up in July/August?**

You will visit with the IB coordinator, first. He will make sure that your IB Diploma Plan is in good shape. Then you will meet with your counselor; the counselor will make sure that your graduation requirements are in good shape and the counselor will make the change in the computer.

**Who will be my PESH counselor?**

You counselor is assigned by your last name:

A – Burl	Ms. Williams	Len - Ng	Ms. Hancock
Burm - D	Mr. Koger	Ngu-Rib	Ms. Taylor
E- Heq	Ms. Kackley	Ric-Sun	Mr. Loveland
Her -Lem	Ms. Smith	Suo-Z	Mrs. Finley

**Who is the PESH IB Coordinator?**

Mr. Fernandez

**When do I see my counselor and when to I see the IB coordinator?**

**Counselor:** Questions about PISD and Texas graduation requirements, schedule changes, scholarship information, letters of recommendation, ACT and SAT information, college questions, AP courses and exams, summer school and correspondence courses.

**IB Coordinator:** Questions about IB courses, IB internal examinations, IB exams, IB CAS requirements, IB Extended Essay requirements, IB Diploma requirements, and scheduling IB classes.

**Is it possible to pursue extracurricular activities as a junior?**

Yes, in fact, most of our current juniors are enrolled in at least one of the following: band, choir, music theory, orchestra, theatre, soccer, baseball, art wrestling and golf. Is it guaranteed that you will be able to accommodate your extracurricular activity within your IB schedule? No. Some combinations just don't work out. Choices will have to be made.

**What is CAS and when do I start?**

CAS stands for Creativity, Action, and Service. All IB students are required to perform at least 50 creativity, 50 action, and 50 service hours during their 11<sup>th</sup> and 12<sup>th</sup> grade year. The IB CAS Supervisor will present each student with the CAS guidelines in spring of their sophomore year.

**What is the extended essay, when do I start it, and when is it due?**

All IB students are required to submit a research paper of some 4000 words. The IB coordinator and English teachers will introduce this to

students in January or February of the junior year. The essays are due December of the senior year.

**I've heard some students go without a lunch. Is this true?**

No.

**Is there a student IB group?**

Yes, the International Baccalaureate Students for Service and Assistance (IBSSA) exists to create an internal support system for IB students. The co-sponsors are Ms. Smith .

**Do many students plan to take the AP exams in addition to the IB exams?**

Yes. Many colleges give a great deal of consideration to students who choose a complete IB Diploma plan. Most universities award credit hours for passing scores on the IB Higher Level exams. Most universities do not award credit hours for standard level exams. In order to gain college credit in these standard level subjects, many students also take the equivalent AP exam. For example, a student who takes the IB Computer Science SL course and exam will also take the AP exam. Many of our teachers will prepare students for both IB and AP exams. Check with your teacher to see if their IB course prepares you to also take the AP exam.

**What is the procedure for dropping the pre-IB prep or IB?**

At the ninth and tenth campus, conference with your counselor. At the 11<sup>th</sup> and 12<sup>th</sup> grade campus, conference with the IB coordinator. (VERY IMPORTANT: Students from central and west must complete either a Reverse IB Transfer Form if the student wishes to return to the Central or West Cluster or a Regular Transfer Form if the student wishes to remain in the East Cluster . Transfers are not approved during the semester.

**When do I register for exams?**

October of the junior and senior year. Most juniors take two exams during their junior year and four exams during their senior year.

**How much homework?**

It varies. The biggest adjustment that any junior must make is moving from a block schedule to a regular schedule. Once the adjustment is made, life should go smoothly. Students can expect 3-4 hours of homework each night.

**What are Internal Assessments?**

In addition to exams, IB students are assessed internally before the May exams. Assessments vary from subject to subject. The following are examples of internal assessment: world literature papers, language orals, portfolios, projects, and dossiers. The assessment is written by the IB Organization, administered and graded by the classroom teacher, and sent off around the world for moderation. Further details about internal assessment will be explained by the classroom teacher.

# TENTATIVE TWO-YEAR IB CALENDAR

## JUNIOR YEAR

August	•Pick up schedules; meet with counselor and/or IB coordinator if necessary
September	•Return signed CAS agreement to IB CAS Supervisor •IB Coordinator presents students with bill for the Junior Year IB Exams
Sept/Oct.	•Government via IB US History Project introduced in IB US History class
October	•Finalize IB Exam Registration by delivering a check or money order directly to the PESH Financial Clerk
December	•Have at least 50 hours of CAS activities documented and on file with the IB CAS Supervisor
Jan/Feb	•Introduction to the Extended Essay ( 3 days) in English 3 class
February	•IB Internal Assessments due to IB subject teachers
March	•First meeting between student and extended essay advisor
Spring	•Students begin conducting extended essay research
May	•Junior Year IB Examinations (students sit for 1 or 2 standard level exams) •Have at least 100 hours of CAS activities documented and on file with the IB CAS Supervisor
Summer	•Students continue to research and begin to compose extended essay (draft 1)
July	•Junior Year IB Examination results published

## SENIOR YEAR

August	•Students submit 3 copies of the Extended Essay (draft 1); pick up schedules; meet with counselor and/or IB coordinator if necessary
September	•IB Coordinator presents students with bill for the Senior Year IB Exams
October	•Finalize IB Exam Registration by delivering a check or money order directly to the PESH Financial Clerk
Fall	•Second & third meeting between student and extended essay advisor; 2 <sup>nd</sup> draft of the extended essay due
December	•Students submit 3 copies of the Extended Essay (final paper)
February	•All 150 documented CAS hours due •IB Internal Assessments due to IB subject teacher
Feb/Mar	•IB English and Language Oral examinations conducted
May	•Senior Year IB Examinations (students sit for the remaining 4 or 5 examinations); students complete IB transcript request form •Students, counselors, and teachers celebrate completion of all IB requirements; IB sashes awarded Plano East Senior High graduation
July	•Senior Year IB Examination results published •IB North America electronically sends official transcript to university of students' choice

## FIRST COLLEGE YEAR

Dec /Jan	•Students return for an IB Reunion and to pick up IB diplomas.
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# **IMPORTANT IMPLICATIONS FOR CENTRAL AND WEST STUDENTS**

The IB Organization certifies individual schools to offer the IB Program, not school districts. The official two-year, IB Program is offered only at Plano East Senior High and the two-year International Honors programs are offered only at Clark High School and Williams High School. Our district welcomes students from the Central and West attendance zones to make application to these programs, but there are certain implications that must be understood:

1. **TRANSPORTATION:** Transportation to and from the International Honors and IB Programs are NOT available for students outside of the east attendance zone. Central and West parents are responsible for securing transportation to and from these schools for their children.
  
2. **IB STUDENT TRANSFER FORM:** Students residing outside of the East attendance zone must complete an IB Student Transfer Form before they are allowed to register for Clark High School, Williams High School, or Plano East Senior High School. (This form will be given to the student with the acceptance letter.) This form is a commitment to attend the IB program in the East feeder system. IB transfer students are subject to the UIL rules and local District guidelines. Once the commitment is signed the student maintains eligibility to participate in competitive activities as long as they attend in the East feeder system.
  
3. **DROPPING THE IB PROGRAM AND REMAINING IN THE EAST FEEDER:** Students from outside of the East attendance zone must complete a PISD Student Transfer Form **IF** they wish to exit from the IH and/or IB Programs and remain in the East feeder system. Student who remain in the East feeder maintain eligibility to participated in competitive activities. The first step is to obtain an IB Exit Form from the 9<sup>th</sup> or 10<sup>th</sup> grade counselor or from the 11<sup>th</sup> and 12<sup>th</sup> grade IB Coordinator and then contact Sherry Easterling at 469-752-8124 (Clark) or Michael Stephens at 469-752-8317 (Williams) to obtain the PISD Student Transfer Form.
  
4. **DROPPING THE IB PROGRAM AND RETURNING TO THE HOME SCHOOL:** Students from outside of the East attendance zone must complete a PISD Student Transfer Form **IF** they wish to exit from the IH and/or IB Programs and return to their home campus. Students who elect to return to the home school will be ineligible to participate in certain competitive activities for one full year. The first step is to obtain an IB Exit Form from the 9<sup>th</sup> or 10<sup>th</sup> grade counselor or the 11<sup>th</sup> and 12<sup>th</sup> grade IB Coordinator and then contact Sherry Easterling at 469-752-8124 to discuss eligibility and to obtain the transfer form. **VERY IMPORTANT:** Student transfers are granted before the school year begins and at mid-term. Transfers are not granted during an academic semester. In other words, once a student has started attending classes, he or she will not be allowed to transfer back to the home campus until the end of the semester.

The ultimate goal of the IB Program is for students to complete the requirements for all four years and earn the IB Diploma in addition to the state of Texas/ PISD diploma. The IB program is very demanding and some students choose to change directions in the middle of their high school careers. Students who do not earn the diploma but participate in one or two years are far richer than those who didn't attempt the program in the first place. Four "complete" years are better than three. Three "complete" years are better than two and so on.

The above implications for central and west students are not meant to discourage students from making application, but to inform them of the procedures for various directions. In fact, this booklet's aim is to give parents and students enough information to make well informed decisions about the IB Program.

Students and/or parents are encouraged to contact Kathy Witcher as soon as possible at (469) 752-9120 if they have questions or need clarification on these important implications.