

# International Baccalaureate Program

The International Baccalaureate Program at Hoover High School allows our students to receive a world class, comprehensive education.

Hoover High became an authorized IB World School in 1997, with our first graduates in 1998. Since then our students have routinely scored above the state, U.S. and worldwide average on their IB exams.

Hoover High is one of twelve schools in Alabama that offers the IB Program and is the second-largest IB Program in the state with just over 200 students in grades 9-12. Over 3,300 IB schools worldwide serve over a million students in 144 countries.

Students complete the IB Program during their junior and senior years of high school. Students choose IB classes in which they complete projects, labs and papers that are graded both by the classroom teacher and outside examiners. IB students also take end-of-course exams which are graded externally. Upon completion of these courses, students receive official IB scores which may earn college credit. Because IB is designed to be an inter-disciplinary program, students must take at least two IB classes in each year. Students who earn passing scores in six IB subjects and satisfy the IB core requirements of CAS, EE and TOK may attain the prestigious IB Diploma.

The IB Diploma is more than a collection of classes. IB Diploma students complete and document at least 150 hours of creative projects, physical activity and community service, known as CAS. Students have a great deal of flexibility and responsibility in completing CAS in order to develop their own skills and interests.

IB Diploma students complete an extended essay (EE) on a topic of their choice, which allows them to engage in original, independent research with assistance from a faculty supervisor. One recent extended essay studied the eco-system of the Cahaba River watershed that borders the HHS campus; the student's work won a statewide competition -- and received an A from IB examiners. IB Diploma students also complete the Theory of Knowledge (ToK) course, which examines various ways of understanding the world around us and asks students to consider and question "how they know what they know." This class helps bring together the knowledge from different academic areas and enhances students' critical thinking, public speaking, and presentation skills. Whether taking IB courses or pursuing the IB Diploma, IB students are exceptionally well-prepared for success in college and life.

If you have any questions about the IB program, please contact the IB Coordinator, Brad Coltrane in Room G201, [bcoltrane@hoover.k12.al.us](mailto:bcoltrane@hoover.k12.al.us), or 439-1371.

The IB webpage is <http://bit.ly/HHSib>. Follow us on Twitter @hhsibucs.

## International Baccalaureate Program (continued)

Subject	Grade	10th	11th	12th
ENGLISH LITERATURE	Pre-IB English 9	Pre-IB English 10	<b>IB English 11</b>	<b>IB English 12</b>
FOREIGN LANGUAGE	French 1 or 2	French 2 or 3	French 3 or <b>IB French 4</b>	<b>IB French 4</b> or Free Elective
	Latin 1 or 2	Latin 2 or 3	Latin 3 or <b>IB Latin 4</b>	<b>IB Latin 4</b> or Free Elective
	Spanish 1 or Advanced 2* <small>*(Advanced level 2 is for students who will take more than 2 years of Spanish)</small>	Spanish Advanced 2* or Spanish 3	Spanish 3 or <b>IB Spanish 4</b>	<b>IB Spanish 4</b> or Free Elective
HISTORY	Pre-IB History 9	Pre-IB History 10	<b>IB History of Americas 11</b>	<b>IB History of Americas 12</b>
SCIENCE	Biology, Pre-AP	Chemistry, Pre-AP	IB Biology 11 or IB Chemistry 11	IB Biology 12 or IB Chemistry 12
MATHEMATICS	Geometry, Pre AP Geometry Team	Alg 2/Trig, Pre AP or Team	<b>IB Math SL (Precal) or IB Precal Team</b>	AP Calculus AP Statistics <b>IB Math HL</b>
	Algebra 1	Geometry,	Alg 2/Trig	<b>IB Math SL</b>
ELECTIVES: Take <b>one</b> IB elective, <b>either</b> junior <b>or</b> senior year	<b>Elective</b> Meet state requirements	<b>Elective</b> Meet state requirements	IB Psychology <b>or</b> Physics <b>or</b> World Religions <b>or</b> Computer Science <b>or</b> IB Music <b>or</b> IB Theater (Music and theater available senior year only)	
ELECTIVES	<b>Elective</b>	<b>Elective</b>	<b>Elective</b>	<b>Theory of Knowledge 12</b>
ADVISORY	Pre-IB 9 Advisory	Pre IB 10 Advisory	<b>Theory of Knowledge 11 (Blended Online)</b>	

The IB Program at Hoover HS is authorized by the International Baccalaureate Organization. Pre-IB and Pre-AP courses are designations used by Hoover City Schools and are not authorized by the International Baccalaureate Organization or the College Board.

The course sequences above represent a typical IB Diploma course of study. Actual course offerings and selections may vary.

# The International Baccalaureate Program

Pre-IB and Pre-AP courses are designations used by Hoover City Schools and are not authorized by the International Baccalaureate Organization or the College Board.

**IB Program Fee: \$350 Per Year**

Pre-IB: <http://bitly.com/HHSPreIBshow>

IB Video: IB: <http://bitly.com/HHSIBshow>

## **IB THEORY OF KNOWLEDGE 11 230095**

*Prerequisite: Available only to IB seniors pursuing IB Diploma*

Course Video: <http://youtu.be/DTDQtMFCN1M>

*TOK 11 is the first year of a two-year course that represents the cornerstone of the International Baccalaureate (IB) curriculum. In grade 11, students take a blended online course guiding them toward completion of the IB extended essay and providing an introduction to the terms and concepts of IB and TOK.*

## **IB THEORY OF KNOWLEDGE 12, TOK IB 12, 2300951**

*Prerequisite: Available only to IB seniors pursuing IB Diploma*

Course Video: <http://youtu.be/DTDQtMFCN1M>

In grade 12, students take the second year of TOK in a traditional classroom setting. Throughout the course students are involved in a critical examination of knowledge through readings, discussions, and writings based on the perspectives of language, logic, perception, mathematics, history, science, ethics, politics, and the arts.

## **IB GROUP 1 - ENGLISH LITERATURE**

### **PRE-IB ENGLISH 9<sup>th</sup> GRADE 2000071**

Course Video: <http://www.youtube.com/watch?v=BdO3dKHQwD8&feature=youtu.be>

This course is taken by ninth grade students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. This course will follow the basic form of other advanced academic English classes, but will include works from world literature, additional writing instruction, and evaluation criteria based on the IB assessment standards. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.

### **PRE-IB ENGLISH 10<sup>th</sup> GRADE 2000111**

Course Video: <http://www.youtube.com/watch?v=2HpUoosIGXw>

This course is taken by sophomore students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. The course will follow the basic form of an English, Pre-AP/IB class, but students will study more works from American and world literature, and the evaluation criteria will be based upon the IB language curriculum's assessment rubrics. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.

### **IB ENGLISH 11<sup>th</sup> GRADE 200022**

*Prerequisite: See criteria under IB Program, page 5*

Course Video: [http://www.youtube.com/watch?v=q3q0v124P\\_8&feature=youtu.be](http://www.youtube.com/watch?v=q3q0v124P_8&feature=youtu.be)

This course is the first part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) assessments in literature and composition. Extra emphasis is placed on oral presentation skills and the study of world literature themes.

## **IB ENGLISH 12<sup>th</sup> GRADE 2000221**

*Prerequisite: IB English 11*

Course Video: <http://bitly.com/HHSIBshow>

This course is the second part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) assessments in literature and composition, in May of the senior year.

## **IB GROUP 2 FOREIGN LANGUAGES**

### **IB SPANISH 270160**

*Prerequisite: Three years of Spanish and enrollment in IB program*

Course Video: <http://www.youtube.com/watch?v=GckJxywi4W8>

### **IB FRENCH 270029**

*Prerequisite: Three years of French*

Course Video: [http://www.youtube.com/watch?v=LH-PFuU\\_I\\_o](http://www.youtube.com/watch?v=LH-PFuU_I_o)

These courses prepare students for the standard-level (SL) Spanish or French B Language Examination. Emphasis is placed on active communication in the language and analysis of Spanish or French culture and literature. Students will be required to give oral presentations and to develop text-handling skills.

### **IB LATIN 270116**

*Prerequisite: Three years of Latin*

Course Video: [http://www.youtube.com/watch?v=vRNhAKYM144&feature=em-share\\_video\\_user](http://www.youtube.com/watch?v=vRNhAKYM144&feature=em-share_video_user)

This course prepares students for standard level (SL) examination in a classical language, Latin. Emphasis is placed on the study of the surviving classical texts in the original language and an analysis of Greek and Roman culture and historical development

## **IB GROUP 3 HISTORY**

### **WORLD HISTORY SINCE 1500, PREIB 2300151**

*Grade Level: 9*

Course Video: <http://www.youtube.com/watch?v=YHFdfyJSJM>

This course is taken by ninth grade students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. This course explores the same topics as World History since 1500 but has a higher emphasis on critical thinking and examination of historical texts. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.

### **US HISTORY AND GEOGRAPHY 10<sup>th</sup> GRADE 1877, PRE-IB 230018**

Course Video: <http://www.youtube.com/watch?v=v9bmD-FTni4>

This course is taken by sophomore students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. The course will follow the basic form of a History, Pre-AP/IB class, but students will study additional world history topics, and the evaluation will be based upon the IB assessment criteria. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.

### **IB HISTORY OF THE AMERICAS 11<sup>th</sup> GRADE 230024**

*Prerequisite: See criteria under IB Program, page 5*

Course Video: <http://www.youtube.com/watch?v=ApoMm4zLS94&feature=youtu.be>

This course is the first part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) assessments in the history of the American continent. This level focuses on U.S. history in the context of World history.

## **IB HISTORY OF THE AMERICAS 12<sup>th</sup> GRADE 230026**

*Prerequisite: IB History 11*

Course Video: <http://www.youtube.com/watch?v=eX7i77Sgdk&feature=youtu.be>

This course is the second part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) examination in the history. This course takes the place of Government and Economics and focuses on specific 20th Century historical topics prescribed by IB and selected by the teacher.

## **IB GROUP 4 EXPERIMENTAL SCIENCE**

### **IB CHEMISTRY 11 220065**

*Prerequisite: See criteria under IB Program, page 5*

*Laboratory Fee: \$25*

Course Video: <http://youtu.be/GySTvwQj5tU>

This course introduces college-level Chemistry topics which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.

### **IB BIOLOGY 11 220016**

*Prerequisite: See criteria under IB Program, page 5*

*Laboratory Fee: \$25*

Course Video: [http://www.youtube.com/watch?v=rcFe\\_rrD7WQ](http://www.youtube.com/watch?v=rcFe_rrD7WQ)

This course introduces college-level Biology topics, which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.

### **IB BIOLOGY 12 2200161**

*Prerequisite: IB Biology 11*

*Laboratory Fee: \$25*

Course Video: <http://www.youtube.com/watch?v=xelukUTCXbZY>

This course continues the advanced study of college-level Biology topics, which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.

### **IB CHEMISTRY 12 2200651**

*Prerequisite: IB Chemistry 11*

*Laboratory Fee: \$25*

Course Video: <http://youtu.be/GySTvwQj5tU>

This course extends the study of college-level Chemistry topics which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.

### **IB ENVIRONMENTAL SYSTEMS AND SOCIETY 220033**

*Grade Level: 11 & 12*

Course Video: [http://www.youtube.com/watch?v=Q\\_wei1UeTQo](http://www.youtube.com/watch?v=Q_wei1UeTQo)

See IB Environmental Systems and Societies in the science section.

## IB GROUP 5 MATHEMATICS

### **IB MATH STUDIES (+1.00 grade weight) 210028**

*Grade Level: 11-12 Prerequisite: Algebra 2/Trig*

*Fee: \$350 IB Program Fee*

IB Course Video: IB: <http://bitly.com/HHSIBshow>

IB Math Studies provides a structured introduction to areas of emphasis in most postsecondary studies of mathematics in preparation for IB assessments. Topics covered include Number Properties and Algebra, Set and Logic, Probability and Statistics, Functions, Geometry and Trigonometry, and Introductory Differential Calculus. To assist students with numerical and graphical analysis, the use of advanced technological tools is required.

### **IB MATH SL 210029**

*Prerequisite: See criteria under IB Program, page 5*

IB Course Video: <http://bitly.com/HHSIBshow>

This course covers the Pre AP Precalculus curriculum in addition to producing portfolio work for the IB diploma. Students advance from this course into AP Calculus where they continue to prepare for both AP and IB examinations. Students may also enroll in IB Precalculus Team in lieu of this course.

### **IB PRECALCULUS TEAM 2100204**

**Fee: Fundraiser/\$150 (Math Team)**

*Prerequisite: Acceptance into the IB Program OR teacher recommendation, Signature required*

IB Course Video: <http://bitly.com/HHSIBshow>

This course covers the same topics as IB Precalculus with a more in-depth analysis of major concepts, more emphasis on theory, and additional topics from Calculus. In addition, students will produce portfolio work for the IB diploma. Students advance from this course into AP Calculus where they prepare for both AP and IB examinations. Enrollment in this course is not limited to IB students. IB Precalculus Team students are required to participate in fundraising equivalent to **\$150**. See math team information in the Math section of this course selection guide for more details on the team requirements.

### **IB MATH HL 210030**

Fundraiser/\$150 (Math Team)

*Prerequisite: Acceptance into the IB Program OR teacher recommendation, Signature required*

*Pre/Corequisite: AP Calculus BC*

IB Course Video: <http://bitly.com/HHSIBshow>

This course covers advanced mathematical topics in-depth and is co-seated with Comprehensive Math Team. Students will produce portfolio work for the IB diploma and take the IB math higher level (HL) examination. Students in this course are also members of the math team and will participate with the math team in tournaments, fundraising, etc.

# IB ELECTIVES

## **IB PSYCHOLOGY 230073**

*Prerequisite: See criteria under IB Program*

Course Video: [http://www.youtube.com/watch?v=i\\_ecGG-66Co](http://www.youtube.com/watch?v=i_ecGG-66Co)

The course follows the format of an introductory college course in Psychology, and students are required to design and conduct a psychology research project.

## **IB MUSIC 280025**

*Prerequisite: Three years of concert or symphonic band or concert choir.*

IB Course Video: <http://bitly.com/HHSIBshow>

Students with a special interest in and talent for music may take concert or symphonic band or concert choir through their senior year and complete IB assessments for music, group performance. Additional work is required to meet IB requirements. See IB coordinator for additional information.

## **IB PHYSICS 220076**

IB Course Video: <http://bitly.com/HHSIBshow>

As an IB subject, IB Physics can only be taken as a "sixth subject" elective and is NOT a substitute course for IB chemistry or biology. This elective is strongly recommended for students enrolled in both IB and engineering academy.

## **IB THEATER 280081**

*Prerequisite: Drama 1, and approval of theater teacher*

*Grade level: 11 and 12 (2 year course: 1<sup>st</sup> year prep, 2<sup>nd</sup> year prep and assessments)*

*Fee: \$350 IB Program Fee*

Course Video: [http://www.youtube.com/watch?v=F18F\\_9hY9xA&feature=youtu.be](http://www.youtube.com/watch?v=F18F_9hY9xA&feature=youtu.be)

This course will be taught in conjunction with advanced drama. Students will complete additional assessments based on the IB theater requirements and develop their theater portfolio which will be submitted for IB assessment.

## **IB GEOGRAPHY 230063**

*Grade Level: 11-12*

IB Course Video: <http://bitly.com/HHSIBshow>

IB Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They will also learn and exercise the methods and tools utilized by geographers in their science and practice. This course is designed to prepare students for assessments in IB Geography.

## **IB WORLD RELIGIONS**

*Grade Level: 11-12*

Course Video: <http://youtu.be/FAsH0-RI0EU>

World Religions is a year-long course that will introduce students to the study of religion and survey six major world religions: Hinduism, Buddhism, Taoism, Judaism, Christianity, and Islam. Additionally two major religions will be selected by the instructor for an in-depth study from the following list: Buddhism, Sikhism, Hinduism, Christianity, Islam, or Judaism. Students will examine the rituals, sacred texts, beliefs and religious experience of these religions, and develop an appreciation for the world's religious diversity. (NOTE: The content and delivery for this course is identical to that of regular level World Religions. The courses will be seated concurrently, but the IB students will have additional reading and assessments).

## **IB COMPUTER SCIENCE SL 220098**

*Grade Level: 11-12*

IB Computer Science is an elective course for IB students. Emphasis on computational thinking is integrated with other topics and supported by practical activities including programming. The course includes practical application of computer science concepts to solve real problems and also requires students to consider the global and ethical implications of technology. Computer science requires an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. There is NO pre-requisite for the course. The computer science course is engaging, accessible, inspiring and rigorous.