



## INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM

### ***What is the IB Diploma Program?***

The International Baccalaureate Diploma Program is a two-year academic pathway centered around a comprehensive and rigorous internationally-focused curriculum. The program is administered by the International Baccalaureate Organization, which is based in Geneva, Switzerland, with regional headquarters for the Americas in Bethesda, Maryland. The coursework in each area of the curriculum is created to help students prepare for study at the university level, to become active and engaged citizens, and to foster global perspectives.

The IB Diploma Program begins in the eleventh grade and continues through the end of the twelfth grade. Students pursuing the IB Diploma are simultaneously earning their State of Indiana high school diploma. The IB Diploma offers students the chance to earn college credit in selected subjects and qualify for admission, as universities inside and outside of the United State recognize the IB Diploma as a highly-valued preparatory program for university work.

IB Diploma students gain experience and knowledge from the broad curriculum, but also stand out to universities due to three important additional features of the Diploma Program -- Theory of Knowledge (TOK), Creativity, Activity, Service (CAS), and the Extended Essay (EE).

This video from the IBO provides an overview of the program and these component parts: [IB Program Video](#).

### ***What is the difference between HL & SL courses?***

The IB divides its courses into two groups -- Higher Level and Standard Level. When students pursue the IB Diploma they will choose a combination of these two levels to showcase their strengths as a student. All Higher Level courses are two-year courses taken over both junior and senior year. Standard Level courses are either one-year or two-year courses, depending on the content and prerequisites fulfilled. If a student is taking a one-year Standard Level course, then it can be scheduled during either the junior year or senior year.

### ***What do IB Assessments look like?***

The IB uses a combination of internal and external assessments to measure students' academic skills and understanding of course content. This unique combination of assessment allows students multiple opportunities to showcase their knowledge and understanding and decentralizes the importance of a single-exam system. Internal assessments for IB courses can include lab work, investigations, performances, field study, portfolio work, etc. External assessments in the IB courses include an end of the year exam emphasizing short answer or essay responses. Students will register for the IB assessments when they are in the last year of an IB course. If the course is a two year course, students will not register for the assessments until they complete both years.

### **What are the costs of the IB Program?**

There is a per subject test fee of \$130.00. *Students who qualify for free or reduced lunch can receive financial assistance.*

### **Can I take IB courses, but not pursue the full IB Diploma?**

Students who do not wish to pursue the full diploma program may take individual IB classes at Carmel High School and receive certificates from IB for successfully completing these courses. Their scores from these individual courses can also be used for college credit and placement. Students not wishing to fulfill all of the requirements of the IB diploma are still strongly encouraged to take individual courses in the IB curriculum to help them prepare for future education.

### **What IB courses are offered at CHS?**

At Carmel High School we offer the following courses in IB's six curricular groups. Students wishing to take the full IB Diploma Program pathway will take six subjects over their junior and senior years, one from each of the Groups 1-6. Students may opt out of Group 6 by taking an additional course from Groups 2, 3, or 4. At least three (and at most four) of the subjects taken will be at the Higher Level, with the remaining subjects taken at the Standard Level.

Group 1: Studies in Language & Literature	<ul style="list-style-type: none"><li>• IB Literature HL</li></ul>
Group 2: Language Acquisition	<ul style="list-style-type: none"><li>• IB Chinese Ab Initio SL</li><li>• IB French HL, SL, or Ab Initio SL</li><li>• IB German HL, SL, or Ab Initio SL</li><li>• IB Latin HL or SL</li><li>• IB Spanish HL, SL or Ab Initio SL</li></ul>
Group 3: Individuals & Societies	<ul style="list-style-type: none"><li>• IB Business Management HL or SL</li><li>• IB Environmental Systems &amp; Societies SL</li><li>• IB History of the Americas HL</li><li>• IB Psychology SL</li></ul>
Group 4: The Sciences	<ul style="list-style-type: none"><li>• IB Biology HL or SL</li><li>• IB Environmental Systems &amp; Societies SL</li><li>• IB Physics HL or SL</li><li>• IB Sports, Exercise, &amp; Health Science SL</li></ul>
Group 5: Mathematics	<ul style="list-style-type: none"><li>• IB Math: Applications &amp; Interpretation HL or SL</li><li>• IB Math: Analysis &amp; Approaches HL or SL</li></ul>
Group 6: The Arts	<ul style="list-style-type: none"><li>• IB Film HL or SL</li><li>• IB Music HL or SL</li><li>• IB Theatre HL or SL</li><li>• IB Visual Arts HL or SL</li></ul>

## DETAILED DESCRIPTIONS OF THE IB COURSES:

### GROUP 1 OPTIONS: *STUDIES IN LANGUAGE & LITERATURE*

#### **IB LITERATURE HL, ENGLISH (1130)**

Classification: International Baccalaureate

Prerequisite: Four credits in English

Open to: 11, 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

IB Language A: Literature Higher Level is a comprehensive exploration of literature from a variety of cultures, literary forms and periods. Students learn to appreciate the artistry of literature and develop the ability to reflect critically on their reading. Students develop their skills in analysis through both oral and written communication. Over the two years of the course, students study 13 works from a representative selection of literary forms, periods and places, including both fiction and nonfiction work. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Literature HL exam at the end of their senior year, students will be prepared for that end goal.

### GROUP 2 OPTIONS: *LANGUAGE ACQUISITION*

#### **IB LANGUAGE B SL/HL SPANISH (2308/2306)**

Classification: International Baccalaureate

Prerequisite: Spanish III

Open to: 11, 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

Our Spanish IV and V classes prepare students for the IB Spanish SL or HL assessments. The emphasis of the Spanish B course is speaking, reading, writing, and listening. In Spanish IV time will be spent on vocabulary building and grammar, with the focus on how to use these vocabulary phrases and grammatical structures. Students will review and expand their knowledge of the geography, history, and culture of the Spanish speaking world. Students read authentic material such as poems, short stories, and current events. Journal and essay writing, presentational and conversational skills, as well as reading and listening comprehension are also emphasized. In Spanish V students move to more complex vocabulary and grammar. Students greatly increase their vocabulary, refine their knowledge of grammar, and focus on speaking, writing, and reading skills with more complex texts. Students continue to learn in-depth information about traditions, customs, and cultures of all Spanish-speaking countries. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Spanish SL or HL exam, students will be prepared for that end goal.

#### **IB LANGUAGE B SL/HL FRENCH (2308/ 2306)**

Classification: International Baccalaureate

Prerequisite: French III

Open to: 11, 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

Our French IV and V classes prepare students for the IB French SL or HL assessments. In these courses, equal emphasis is placed on the skills of speaking, reading, writing and listening. Students will be given the opportunity to depthfully explore francophone culture. Students participate in a wide variety of conversations dealing with daily life and news in the francophone cultures as well as their own. They learn the tools for gaining maximum comprehension in reading authentic literary texts, articles and novels. Students participate in group and partner discussions and debates on various topics concerning the French speaking world. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB French SL or HL exam, students will be prepared for that end goal.

**IB LANGUAGE B SL/HL IB GERMAN (2308/2306)**

Classification: International Baccalaureate

Prerequisite: German III

Open to: 11, 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

Our German IV and V classes prepare students for the IB German SL or HL assessments. Equal emphasis in the German B courses will be placed on the four skills of speaking, reading, writing and listening. Level IV German allows students to participate in leadership roles, give presentations, interpret complex situations, and read shorter and full-length works for comprehension. Level V German encourages authentic activities for students such as attending concerts, plays, and community activities in German or pertaining to German culture. Students will read full-length works as well as analyzing authentic German texts. They will refine their communication and writing skills by engaging in a variety of presentational, interpersonal, and interpretive speaking, writing and reading activities. Courses are conducted in the target language. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB German SL or HL exam, students will be prepared for that end goal.

**IB LATIN SL/ HL (2302/2300)**

Classification: International Baccalaureate

Prerequisite: Latin III

Open to: 11, 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

Our Latin III and IV classes prepare students for the IB Latin SL or HL assessments. These courses build upon the basic vocabulary and grammatical structures learned in previous years, enhancing students' abilities to read and understand the cultural ideals of antiquity through the study of various genres of literature. A portfolio containing samples of student work in three skill areas will be kept by students throughout their study of Latin. Students will research assigned topics concerning historical, social, political, and cultural influence of the ancient world upon global issues. Students will read for comprehension from a variety of longer authentic materials as they learn to use the language creatively in writing poetry, prose and essays. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Latin SL or HL exam, students will be prepared for that end goal.

**IB LANGUAGE B AB INITIO SL OPTION**

For students who are at an earlier stage of language acquisition than the IB SL or HL exams require, the IB offers an option to assess students at the beginner level. Students pursuing the full IB Diploma who are at this point in their language acquisition pathway, will be seated in the appropriate level of their language (Chinese, French, German, or Spanish) and will be given support to prepare for the IB ab Initio assessments and exam. Their classroom time will provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. This course encourages the learner to go beyond the confines of the classroom, expanding an awareness of the world and fostering respect for cultural diversity. Students will develop receptive, productive, and interactive skills through opportunities to respond and interact appropriately in a defined range of everyday situations. Scheduling for this level of language study will be coordinated by the IB Diploma Coordinator and the World Language Department Chairperson.

## GROUP 3 OPTIONS: *INDIVIDUALS AND SOCIETIES*

### **IB BUSINESS MANAGEMENT HIGHER LEVEL (4580)**

Classification: International Baccalaureate

Prerequisite: None

Open to: 11 & 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

Business Management Higher Level explores how and why individuals form organizations, organizational problems and life cycles, and the role of individuals and groups within organizations. It is based on the curriculum published by the International Baccalaureate Organization. Students gain a broad understanding of the variety of organizations that exist, including profit and non-profit, and will examine and apply the principles of organizations and the techniques practiced in organizational decision making. Students also develop an understanding of the interdependency of organizations and the effect on problem solving. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Business Management HL exam, students will be prepared for that end goal.

### **IB BUSINESS MANAGEMENT STANDARD LEVEL (4582)**

Classification: International Baccalaureate

Prerequisite: None

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing and operations management. Links between the topics are central to the course. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools and techniques and placed in the context of real world examples and case studies. The course encourages the appreciation of ethical concerns at both a local and global level. It aims to develop relevant and transferable skills, including the ability to: think critically; make ethically sound and well-informed decisions; appreciate the pace, nature and significance of change; think strategically; and undertake long term planning, analysis and evaluation. The course also develops subject-specific skills, such as financial analysis. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Business Management HL exam, students will be prepared for that end goal

### **IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL (3016)**

Classification: International Baccalaureate

Required Prerequisite: none

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

The IB Environmental Systems and Societies course aims to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention is constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. The teaching approach strives to be conducive to students evaluating the scientific, ethical, and socio-political aspects of issues. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Environmental Systems and Societies SL exam, students will be prepared for that end goal. *Note: With its dual focus on science and societal impacts, this course can*

count as both the Group 3 & Group 4 requirement for the IB diploma. DP students will still take 6 total IB courses, but this course allows greater flexibility in how that combination is created.

### **IB HISTORY OF THE AMERICAS HL (1590)**

Classification: International Baccalaureate

Prerequisites: Recommended AP European History or AP Human Geography

Open to: 11 & 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

IB History of the Americas is a two-year program that introduces students to the common experience of the Americas through a comparative analysis of cultural, political, social, and economic issues. The first year of the course will integrate the histories of Canada, Latin America, and the United States with special focus on a study of the Civil War, the Age of Imperialism, and World War II. It is designed to promote and enhance an awareness of international understanding through focusing on the Western Hemisphere. The second year of the course takes a topical approach to studying the 20th century world, focusing on the causes, practices, and effects of war, the rise of single-party states, the Cold War, and/or the collapse of communism at the end of the century. Students also complete a historical investigation of their choosing. The IB approach to history seeks to pose questions without providing definitive answers. Students are taught to engage with history both through exposure to primary historical sources and through the work of historians. Students are taught to select and interpret data and then begin a critical evaluation of it. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB History of the Americas exam, students will be prepared for that end goal. *Note: History of the Americas 1-2 (year 1) satisfies the Core 40 requirements for United States History.*

### **IB PSYCHOLOGY SL (1606)**

Classification: International Baccalaureate

Prerequisite: None

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

Psychology SL is designed to develop the student's capacity to identify, to analyze critically, and to evaluate theories, concepts, and arguments about the nature and activities of the individual and society. Over the course of one year, students will interpret and conduct psychological research. Students will explore how the resulting knowledge benefits human beings. Students will develop an understanding of the biological, cognitive, learning, and socio-cultural influences on behavior. An emphasis will be placed on the development of an awareness of how applications of psychology in everyday life are derived from psychological theories. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Psychology SL exam, students will be prepared for that end goal.

## GROUP 4 OPTIONS: *THE SCIENCES*

### **IB BIOLOGY HL (3032)**

Classification: International Baccalaureate

Required Prerequisite: Biology I-2 and Chemistry I-2

Open to: 11 & 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

IB Biology Higher Level focuses on six core topics: cell biology, molecular biology, genetics, ecology, evolution/biodiversity, and human physiology. It is based on the curriculum published by the International Baccalaureate Organization, which provides a practical approach to the course delivery, emphasized through the interdisciplinary group project, and a mixture of both short-term and long-term experiments and investigations. In this HL level, students are required to study the SL topics in greater depth, as well as an additional study in eight topics: nucleic acids, metabolism, cell respiration, photosynthesis, genetics and evolution, animal physiology, and plant biology. Optional course topics for students include neurobiology and behavior, biotechnology and bioinformatics, ecology and conservations, and human physiology. IB Biology HL is a two-year course taken over a student's junior and senior years. The junior year covers the SL topics, and the senior year covers the additional 8 topics and prepares students for the IB assessments and exam. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Biology HL exam, students will be prepared for that end goal.

### **IB BIOLOGY SL (3034)**

Classification: International Baccalaureate

Required Prerequisite: Biology I-2 and Chemistry I-2

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

IB Biology Standard Level focuses on six core topics: cell biology, molecular biology, genetics, ecology, evolution and biodiversity, and human physiology. It is based on the curriculum published by the International Baccalaureate Organization, which provides a practical approach to the course delivery, emphasized through the interdisciplinary group project, and a mixture of both short-term and long-term experiments and investigations. Optional course topics include neurobiology and behavior, biotechnology and bioinformatics, ecology and conservation, and human physiology. IB Biology SL is a one year IB course. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Biology SL exam, students will be prepared for that end goal.

### **IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL (3016)**

Classification: International Baccalaureate

Required Prerequisite: none

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

The IB Environmental Systems and Societies Standard Level course aims to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention is constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. The teaching approach strives to be conducive to students evaluating the scientific, ethical, and socio-political aspects of issues. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Environmental Systems and Societies SL exam, students will be prepared for that end goal. *Note: With its dual focus on science and societal impacts, this course can*

*count as both the Group 3 & Group 4 requirement for the IB diploma. DP students will still take 6 total IB courses, but this course allows greater flexibility in how that combination is created.*

### **IB PHYSICS SL (3098)**

Classification: International Baccalaureate

Required Prerequisite: Algebra II-2

Open to: 11 & 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

IB Physics Standard Level is a two-year course designed to introduce students to the laws of physics, the experimental skills required in physics, and the social and historical aspects of physics as an evolving body of human knowledge about nature. IB Physics SL focuses on the study of Newtonian mechanics, waves, electricity, magnetism, thermal and nuclear physics. This course intends to develop student understanding, use and evaluation of scientific facts, concepts, methods and techniques. IB Physics would be a beneficial class to students pursuing a science or math related field in college and/or an IB diploma. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Physics SL exam, students will be prepared for that end goal.

### **IB PHYSICS HL (3096)**

Classification: International Baccalaureate

Required Prerequisite: Algebra II-2

Open to: 11 & 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

IB Physics Higher Level is a two-year course designed to introduce students to the laws of physics, the experimental skills required in physics, and the social and historical aspects of physics as an evolving body of human knowledge about nature. It is based on the curriculum published by the International Baccalaureate Organization. Students study six topics: physics and physical measurement, mechanics, thermal physics, waves, electricity and magnetism, and atomic and nuclear physics. Students must complete additional study in six topics: measurement and uncertainties, mechanics, thermal physics, wave phenomena, electromagnetism, and quantum and nuclear physics. Optional course topics from which the student may only choose two include biomedical physics, the history and development of physics, astrophysics, relativity, and optics. IB Physics would be a beneficial class to students pursuing a science or math related field in college and/or an IB diploma. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Physics HL exam, students will be prepared for that end goal.

### **IB SPORTS, EXERCISE, AND HEALTH SCIENCE SL (3510)**

Classification: International Baccalaureate

Recommended Prerequisites: Sports Medicine I & II, Anatomy & Physiology, or PLTW: Human Body Systems

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

IB Sports, Exercise, and Health Science Standard Level involves the science that underpins physical performance and allows students opportunities to apply these principles both through inquiry and experimentation (field and laboratory). Topics covered include anatomy, exercise physiology, energy systems, movement analysis, skill in sport and measurement, and evaluation of human performance. Students are required to do in-depth study of two of the following options: optimizing physiological performance, psychology of sport, physical activity and health, and nutrition for sport, exercise, and health. Students taking this course will also address issues and ethics on an international scale by considering sport, exercise, and health within a global context relevant to the individual. The course is based on the curriculum published by the International Baccalaureate Organization. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB Sports, Exercise, and Health SL exam, students will be prepared for that end goal.

## GROUP 5 OPTIONS: *MATHEMATICS*

### **IB MATHEMATICS: Analysis and Approaches SL 1-2 (2588)**

Classification: International Baccalaureate

Prerequisite: Algebra II-1-2 or Algebra II Honors 1-2

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

This SL course blends all of the concepts and skills that must be mastered prior to the enrollment in a college-level math course. A functional approach provides for the integration of trigonometric concepts, relationships of equations and their graphs and applications of real world problems with a STEM approach. Students in this class will complete various projects in addition to traditional evaluations. The emphasis of this course is to help students obtain a well-rounded understanding of all topics. They will demonstrate this understanding through a mandatory exploration. The exploration is a thesis-like project where students will apply the math they've learned to an area of interest. Students enrolled in this course will be able to choose to take an external exam, either the SL exam at the end of this school year or continue on to IB MATHEMATICS: Analysis and Approaches HL 1-2 and take the HL exam at the end of the second year. Calculator Requirement: TI-Nspire CX, or TI-Nspire CAS

### **IB MATHEMATICS: Analysis and Approaches HL 1-2 (2590)**

Classification: International Baccalaureate

Prerequisite: IB MATHEMATICS: Analysis and Approaches SL 1-2

Open to: 11, 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

This HL course extends students' knowledge from Analysis and Approaches SL. This course is intended to follow Analysis and Approaches SL. It will review topics from the standard level course and delve deeper into the same syllabus content as the Analysis and Approaches SL Mathematics course description. This course will appeal to students with a good background in mathematics who are competent in a range of analytical and technical skills. This course will help students retain the Calculus they have learned in their sophomore and junior years and prepare them for further mathematics in college. Ample time will be given to explore each topic and to enhance students' understanding through the use of technology and explorations. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB exam, students will be prepared for that end goal. Calculator Requirement: TI-Nspire CX, or TI-Nspire CAS

### **IB MATHEMATICS: Applications and Interpretations SL 1-2 (2592)**

Classification: International Baccalaureate

Prerequisites: Algebra II-1-2 or Algebra II Honors 1-2

Open to: 11 or 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

This course is intended 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, rudimentary knowledge of basic processes and a curiosity for how mathematics might impact their future. This course concentrates on mathematics that can be applied to contexts related as far as possible to other subjects being studied, to common real-world occurrences and to topics that relate to home, work, and leisure situations. The course requires students to produce a project, a piece of written work based on personal research, guided and supervised by the teacher. The project provides an opportunity for students to carry out a mathematical investigation in the context of another course being studied, a hobby or an area of interest of their choice using skills learned before and during the course. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB exam, students will be prepared for that end goal. Students taking this course will be required to have a TI-nspire CX, TI-nspire CX CAS or TI 84 Plus graphing calculator.

**IB MATHEMATICS: Applications and Interpretations HL 1-2 (2594)**

Classification: International Baccalaureate

Prerequisite: IB MATHEMATICS: Applications and Interpretations SL 1-2

Open to: 11, 12

Credit: 2 semester course, 1 credit earned per semester (1 year course), Full Weight

This HL course extends students' knowledge from Applications and Interpretations SL. This course is intended to follow Applications and Interpretations SL. It will review topics from the standard level course and delve deeper into the same syllabus content as the Applications and Interpretations SL Mathematics course description. This course is intended to meet the needs of students whose interest in mathematics is more practical than theoretical but seek more challenging content. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work. While it is not required that students take the IB exam, students will be prepared for that end goal. Students taking this course will be required to have a TI-nspire CX, TI-nspire CX CAS or TI 84 Plus graphing calculator.

**GROUP 6 OPTIONS: *THE ARTS*****IB VISUAL ARTS SL & HL (4092/ 4090)**

Classification: International Baccalaureate

Prerequisite: none

Open to: 11 &amp; 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

The IB Visual Arts program is designed to provide students of various art interests and abilities with opportunities to develop their aesthetic, imaginative, and creative faculties in a global context. Rather than focusing on the production of art alone, the program also emphasizes critical thinking, intercultural understanding, and exposure to a variety of points of view. Through IB Visual Arts students center their artistic development around a Research Workbook which serves as a personal record of the evolution of their aesthetic, imaginative, and creative journey. Students develop skills of organization, critical thinking, time management, collaboration, reflection, and life-long learning/ownership of learning. From the pages of the Research Workbook comes a visual expression of ideas that are of original inspiration. Students select appropriate media through which to reflect a sense of exploration, discovery, and thoughtful understanding as they develop creative and technical artistic abilities through studio work. Students select from an HL or SL level of concentration depending upon whether their major focus will be on production of work or rather on development of thoughts and images through the Research Workbook. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work.

**IB THEATER ARTS SL & HL (4264/4262)**

Classification: International Baccalaureate

Prerequisite: none

Open to: 11 &amp; 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

Theater Arts SL and HL involves the development of performance skills through working on devised and scripted scenes, working collaboratively in an ensemble, exploring new performance techniques, acting techniques and characterization. Students will also study drama from the point of view of the director and will investigate methods of turning a script into performance. Students will reflect upon personal and universal concerns revealed in dramatic literature from other cultures and develop a global perspective. Specifically, students will focus on ways that theatre and those who work in all aspects of theatre reflect and influence culture. Students will apply their practical and theoretical studies to at least two productions. Students electing to pursue the Higher Level Theatre Arts course will also need to complete the Individual Project. This project requires the student to complete a practical study based on his/her own interest of a specific aspect of theatre. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work.

**IB FILM SL & HL (4272/ 4270)**

Classification: International Baccalaureate

Prerequisite: none

Open to: 11 & 12

Credit: 4 semester course, 1 credit earned per semester (2 year course), Full Weight

Film SL and HL are designed to provide students with opportunities to explore film as an art form and to understand how it differs from, and at the same time incorporates, other art forms. Students will study film history of more than one culture, analyze, interpret, and critique film texts. As well students will work to understand and participate in the processes involved in film productions. Students will also produce their own films. Film SL and HL are forums for students to make sense of the world around them and to use film to develop ideas, think critically, and reflect on their place within an international community in a collaborative setting. Film HL is a more sophisticated study of these concepts. Curriculum and assessments within this course are designed to prepare students for International Baccalaureate's evaluation of their work.

**IB MUSIC SL & HL (4214 SL/4212 HL)**

Classification: International Baccalaureate

Prerequisite: simultaneously enrolled in ensemble group (band, choir, or orchestra)

Open to: 11 & 12

Credit: course credit is tied to student's ensemble

IB Music Standard Level and Higher Level is a two year endeavor by students to develop knowledge and potential as musicians, both personally and collaboratively. IB Music students will enroll in one of our bands, choirs, or orchestras. In these ensembles, students will look at music as researchers, creators, and performers. Students are required to study musical perception and actively listen to a wide range of music from different parts of the world, musical cultures, and time periods. They also develop aural perception and understanding of music by learning about musical elements, including form and structure, notations, musical terminology, and context. Through the course of study, students become aware of how musicians work and communicate. IB Music students will create a portfolio over two years of their musical work and submit 3 assessments (Standard Level) or 4 assessments (Higher Level) to IB for evaluation.

## IB CORE REQUIREMENTS

### **IB THEORY OF KNOWLEDGE (0560)**

Classification: International Baccalaureate

Prerequisite: none

Open to: 11-12 (*Students start the course second semester junior year & finish during first semester senior year*)

Credit: 2 semester course, 1 credit earned per semester, Full Weight

Theory of Knowledge is an interdisciplinary course that is central to the educational philosophy of the International Baccalaureate Diploma Program. It challenges students to reflect critically on diverse ways of knowing and areas of knowledge and to consider the role which knowledge plays in a global society. It encourages students to become aware of themselves as thinkers, to become aware of the complexity of knowledge, and to recognize the need to act responsibly in an increasingly interconnected world. Students engage in daily discussions, prepare presentations relevant to course content, read selections from a variety of disciplines, and write about their understandings by drawing on their experiences inside and outside of the classroom. Students who are not pursuing the full IB Diploma may sign up to take this course, space and scheduling constraints permitting. Scheduling preference will be given to full DP students for whom this course is required.

### **IB CREATIVITY, ACTIVITY, & SERVICE**

The IB's goal is to educate the whole person and foster responsible, compassionate citizenship. The CAS component encourages students to share their energy and special talents with others and explore their interests outside of the classroom. Students may, for example, participate in theater 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. Documentation that students have participated in CAS experiences and projects over the two years of the Diploma Program is completed during SSRT with the assistance of the CAS Coordinator. Note: CAS is not a course that students need to sign up for. It will be integrated into the IB SSRT.

### **IB EXTENDED ESSAY**

Students pursuing the full IB Diploma will write an extended essay of 4,000 words over the course of their junior and senior years. Each student has the opportunity to investigate a topic of special interest. The essay requirements acquaint students with the kind of independent research and writing skills expected by universities. The essay permits students to deepen their program of study, or add breadth to their academic experience by electing to write on a subject not included in their program choices. Support for the research and writing process is provided during the IB SSRT and by an academic supervisor who has expertise in the content area the student selects. Note: the Extended Essay is not a course that students need to sign up for. It will be integrated into the IB SSRT.

### **IB SSRT**

We have the convenience of a built-in homeroom in the form of SSRT at CHS. Our IB Diploma students use the IB SSRT as a place to connect and relax, as well as complete the IB Core work of CAS and the EE. The IB SSRT also allows students an easy place to collaborate and ask questions about their IB coursework. If students have another commitment during SSRT that they would like to be involved in, we allow them to do so (e.g. a student is permitted to participate in both the IB and Senate SSRTs).