

International Baccalaureate Programme

IB Fast Facts

There are schools in more than 143 countries that offer the IB Programme and its curriculum.

The IB Programme has been in existence for more than 40 years.

The IB Programme is well regarded by many universities around the world.



Students who participate in the full IB Diploma Programme receive a well-rounded education through the IB courses and the other components of the programme.

authorized IB World Schools in February of 2008, and the first IB Diploma class graduated in 2010.

Some of the Benefits of the IB Programme

Global Awareness and Internationalism: The IB Programme emphasizes global awareness and intercultural understanding.

International Standards: IB students and teachers use the same curriculum that is used in IB schools in more than 143 countries around the world.

Preparation for College: The IB Programme is known for its excellent college preparation and students are well prepared to meet the demands of college coursework. Diploma students are often given preferential

International Baccalaureate Programme

Unique Assessments: IB students not only have a culminating assessment at the end of the course, but also demonstrate their learning through assessments such as laboratory reports, portfolios, performances,

Interdisciplinary Learning: Students participating in the IB Diploma Programme have the benefit of interdisciplinary study in which there is integration of course material across the

Research Skills and Inquiry: The IB Programme and IB courses emphasize sophisticated research skills and engage students in inquiry-based learning.

International Baccalaureate Programme

Frequently Asked Questions

What are the benefits of participating in the IB Diploma Programme?

The primary purpose of the IB Programme is to provide students with an internationally recognized and well-rounded education that will prepare them for college and beyond. Through participation in the IB Diploma Programme, students learn to become thoughtful citizens, who are able to articulate their thoughts, and manage their time and responsibilities well. The IB Diploma Programme is also a well-respected programme by colleges and universities around the world.

What are higher level and standard level IB courses?

There are two levels of IB courses – higher level (HL) and standard level (SL). To earn an IB Diploma, students are required to take at least three courses (not more than four courses) at the higher level and the remainder of the courses at the standard level.

The higher-level courses have a required number of class hours, which corresponds to two school years in length. Higher-level courses have a prescribed curriculum, which includes learning information at an in-depth level. The standard level courses are required to be at least one school year in length, but many extend across two years. While students in standard level courses learn information at an in-depth level, the prescribed curriculum tends to cover less material than the higher level courses.

Can a student take IB courses without participating in the Diploma Programme?

While the full Diploma Programme is the foundation of the International Baccalaureate Programme, the International Baccalaureate Organization allows students to take individual IB courses without participating in the full Diploma Programme. Individual IB courses are known as certificate courses because students are able to earn a certificate in these courses.

Do students receive an IB score awarded by the International Baccalaureate Organization for their IB courses?

Students have prescribed IB assessments for each IB course and earn a score from the International Baccalaureate Organization based on their performance on these required IB assessments. Students earn a score from 1 – 7 in each IB course. To be awarded an International Baccalaureate Diploma students must earn a minimum cumulative score in their courses, and must have required scores in accordance with the scoring rules set by the International Baccalaureate Organization.



IB Worldwide Curriculum

IB Diploma students take one course from each of the IB subjects groups and complete the unique components that are at the core of the program: TOK, Extended Essay and CAS.

Dublin Coffman IB Course Offerings

Group 1: Language A1

- **English (HL)**

Group 2: Second Language

- **Spanish B (SL&HL)**
- **French B (SL&HL)**
- **Spanish Ab Initio (SL)**
- **German B (SL & HL)**

Group 3: Individuals and Societies

- **HOTA (HL)***
- **Business and Management (SL)****
- **Psychology (SL)****

Group 4: Experimental Sciences

- **Biology (HL)**
- **Physics (SL)**
- **Chemistry (HL)**

Group 5: Mathematics

- **Math (HL)**
- **Math (SL)**
- **Math Studies (SL)**
- **Further Math (HL)**

Group 6: The Arts or Electives***

- **Visual Arts (SL&HL)**
- **Music (SL&HL)**
- **Computer Science (SL&HL)****

** The course meets the senior government requirement. **The course is one-year in length.*

****An elective is a second course taken in groups 2, 3, 4, or 5.*

HL = Higher Level Course; SL = Standard Level Course. IB Diploma students take a minimum of 3 HL courses, but not more than 4.

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IB Worldwide Curriculum

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Dublin Jerome IB Course Offerings

Group 1: Language A1

- English (HL)

Group 2: Second Language

- Spanish B (SL&HL)
- French B (SL&HL)
- Spanish Ab Initio (SL)
- German B (SL & HL)

Group 3: Individuals and Societies

- HOTA (HL)*
- Business and Management (SL)**
- Psychology (SL)**
- Philosophy (HL)

Group 4: Experimental Sciences

- Biology (HL)
- Physics (SL)
- Chemistry (SL)
- Environmental Systems & Societies (SL)

Group 5: Mathematics

- Math (HL)
- Math (SL)
- Math Studies (SL)

Group 6: The Arts or Electives***

- Visual Arts (SL&HL)
- Music (SL&HL)
- Theatre (SL&HL)

* The course meets the senior government requirement. **The course is one-year in length.

. ***An elective is a second course taken in groups 2, 3, 4, or 5.

HL = Higher Level Course; SL = Standard Level Course. IB Diploma students take a minimum of 3 HL courses, but not more than 4.

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IB Worldwide Curriculum

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Dublin Scioto IB Course Offerings

<p style="text-align: center;">Group 1: Language A1</p> <hr/> <ul style="list-style-type: none"> • English (HL) 	<p style="text-align: center;">Group 2: Second Language</p> <hr/> <ul style="list-style-type: none"> • Spanish B (SL&HL) • French B (SL&HL) • French Ab Intio (SL) • Spanish Ab Initio (SL) • German B (SL & HL) 	<p style="text-align: center;">Group 3: Individuals and Societies</p> <hr/> <ul style="list-style-type: none"> • HOTA (HL)* • Business and Management (SL)** • Psychology (SL)**
<p style="text-align: center;">Group 4: Experimental Sciences</p> <hr/> <ul style="list-style-type: none"> • Biology (HL) • Chemistry (HL) • Physics (SL) • Environmental Systems & Societies (SL) 	<p style="text-align: center;">Group 5: Mathematics</p> <hr/> <ul style="list-style-type: none"> • Math (HL) • Math (SL) • Math Studies (SL) 	<p style="text-align: center;">Group 6: The Arts or Electives***</p> <hr/> <ul style="list-style-type: none"> • Visual Arts (SL&HL) • Theatre (SL&HL)

* The course meets the senior government requirement. **The course is one-year in length.
 . *** An elective is a second course taken in groups 2, 3, 4, or 5.

HL = Higher Level Course; SL = Standard Level Course. IB Diploma students take a minimum of 3 HL courses, but not more than 4.

GROUP 1: LANGUAGE A1

IB ENGLISH (HL) – 505 – Year 1 / 506 – Year 2

Prerequisite: English II, Honors English II or American Studies
Graded: Weighted Grade: 11-12
Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 – senior year

IB English HL promotes a lifelong interest in literature and an expanded cultural understanding through the study of and participation in literary criticism in a variety of genres and contexts. Students will practice detailed analysis of written text that leads to excellent oral and written skills of expression. Students will demonstrate a clear command of language for commentary on personal and critical response to literature, effective style and rhetoric, relationships between and among works, and structured argumentation. This course is a two-year program which concludes with students completing the IB Exam. The course includes required literature by IB which demands emotional and intellectual maturity of students.

GROUP 2: SECOND LANGUAGE

IB SPANISH AB INITIO (SL) – 541 – Year 1 / 542 – Year 2

Prerequisite: No previous Spanish Credit but 1 to 3 yrs. in non-Spanish World Language recommended
Graded: Weighted Grades: 11 and 12
Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 senior year

Ab initio Spanish is an intensive two-year language course that is an accelerated version of the normal three-year high school sequence. The course will provide students who have little or no experience in Spanish with the skills necessary to handle everyday situations in a Spanish-speaking environment. The focus of the course is on “real” communication. Students will learn how to communicate effectively with other Spanish speakers in practical and social situations. This course is available to all students.

IB SPANISH B (SL) – 539 – Year 1 / 540 – Year 2

IB SPANISH B (HL) – 559 – Year 1 / 560 – Year 2

Prerequisite: Spanish III
Graded: Weighted Grade Levels: 11 and 12
Time Frame: 2 Years-equivalent to IV&V Credit: 1.00 – junior year / 1.00 senior year

Spanish Language B HL/SL gives students the opportunity to reach a high level of proficiency in the four primary skills of language learning: reading, writing, listening and speaking. Most of the activities will be embedded in culturally authentic materials from a variety of sources and media, i.e. authentic literature, movies, news and magazine articles, popular music and other realia. Spanish B challenges us to consider our role in the international community and explore issues of internationalism. Those seeking to take this course at the HL level will need to distinguish themselves from their counterparts in degree of refinement with regard to both grammar control and overall expression. The Spanish B student will be assessed in a variety of ways to display both performance ability as well as language proficiency. This course is available for students interested in earning an IB Certificate or for those pursuing an IB Diploma.

IB FRENCH AB INITIO (SL) – 549 – Year 1

IB FRENCH AB INITIO (SL) – 550 – Year 2

Prerequisite: No prior French credit
Graded: Weighted Grades: 11 and 12
Time Frame: 2 Years Credit: 2.00

French ab initio standard level is a world language that focuses on internationalism and develops students as global learners. Over a period of 2 years students will achieve communicative competence in French in a variety of everyday situations. Vocabulary and functions will focus on topics of high – interest and relevance that make connections with other disciplines and with the world today.

***This class is only offered at Dublin Scioto High School.**

IB FRENCH B (SL) – 565 – Year 1 / 566 – Year 2

IB FRENCH B (HL) – 567 – Year 1 / 568 – Year 2

Prerequisite: French III
Graded: Weighted Grades: 11 and 12
Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 senior year

French Language B HL/SL gives students the opportunity to reach a high level of proficiency in the four primary skills of language learning: reading, writing, listening and speaking. Most of the activities will be embedded in culturally authentic materials from a variety of sources and media, i.e. authentic literature, movies, news and magazine articles, popular music and other realia. The very nature of French B is such that it challenges us to consider our role in the international community and explore issues of internationalism. Those seeking to take this course at the HL level will need to distinguish themselves from their counterparts in degree of refinement with regard to both grammar control and overall expression. The IB French B language student will be assessed in a variety of ways to display both performance ability as well as language proficiency. This course is available for students interested in earning an IB Certificate or for those pursuing an IB Diploma.

IB GERMAN B (SL) – 561 – Year 1 / 562 – Year 2

IB GERMAN B (HL) – 563 – Year 1 / 564 – Year 2

Prerequisite: German III
Graded: Weighted Grades: 11 and 12
Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 senior year

German Language B HL/SL gives students the opportunity to reach a high level of proficiency in the four primary skills of language learning: reading, writing, listening and speaking. Most of the activities will be embedded in culturally authentic materials from a variety of sources and media, i.e. authentic literature, movies, news and magazine articles, popular music and other realia. The very nature of German B is such that it challenges us to consider our role in the international community and explore issues of internationalism. Those seeking to take this course at the HL level will need to distinguish themselves from their counterparts in degree of refinement with regard to both grammar control and overall expression. The IB German B language student will be assessed in a variety of ways to display both performance ability as well as language proficiency. This course is available for students interested in earning an IB Certificate or for those pursuing an IB Diploma.

GROUP 3: INDIVIDUALS AND SOCIETIES

IB HISTORY OF THE AMERICAS (HL) – 529 – Year 1 / 530 – Year 2

Prerequisite: Two required Social Studies credits
Graded: Weighted Grade: 11-12
Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 – senior year

History of the Americas is a 2-year course designed to fit the International Baccalaureate program. The course is designed to have students reach a higher level of learning and become true historians. Year one and year two of History of the Americas will focus in depth on selected topics chosen by the teacher.

***The American Government requirement for graduation is earned during year two of this course.**

IB PSYCHOLOGY (SL) – 527

Graded: Weighted Grade: 11-12
Time Frame: Year Credit: 1.00

IB Psychology will help students gain an understanding of international topics in the field of psychology. This will instill them with a basis of comparison when exploring different theories, practices, and research methods in psychology in the world. The course also includes research and experimental components.

IB PHILOSOPHY (HL) – 555 – Year 1 / 556 – Year 2

Prerequisite: None
Graded: Weighted Grade: 11-12
Time Frame: 2 Years Credit: 2.00

IB Philosophy HL is a course that will enable students to examine various philosophical perspectives and theories. Students will engage in discussions of philosophically based questions as well as ethics and contemporary issues. Through this course, students will also be able to sharpen their logical reasoning skills. A core philosophical question will be studied as well as two of the following options: the grounds of epistemology, theories and problems of ethics, the philosophy of religion, the philosophy of art, political philosophy, non-western traditions and perspectives, the philosophical concepts related to contemporary social issues, and the philosophy of people, nations, and cultures. Students will also learn how to produce a philosophical analysis of non-philosophical material.

***This class is only offered at Dublin Jerome High School.**

IB BUSINESS MANAGEMENT (SL) – 503

Graded: Weighted Grade: 11-12
Time Frame: Year Credit: 1.00

The IB Business and Management course is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills. The application of tools and techniques of analysis facilitates an appreciation of complex business activities. The course considers the diverse range of business organizations and activities and the cultural and economic context in which business operates. Emphasis is placed on strategic decision-making and the day-to-day business functions of marketing, production, human resource management and finance.

GROUP 4: EXPERIMENTAL SCIENCES

IB BIOLOGY (HL) – 517 – Year 1 / 518 – Year 2

Recommended: Please see the recommended sciences for IB students.

Graded: Weighted Grades: 11-12

Time Frame: 2 Years Credit: 2.00

IB Biology (HL) allows students to develop a broad understanding of biology principles related to several core areas of biology including Cells, Chemistry of Life, Genetics, Ecology and Evolution and Human Health and Physiology. IB Biology allows students to investigate issues that have a global impact such as global warming, energy usage, deforestation, and the ethical implications of biotechnologies such as cloning and genetic engineering. IB Biology incorporates a variety of instructional methods including lecture, cooperative learning, and research and laboratory exercises. There is an emphasis on investigation and experimental design in which students will formulate hypotheses, design and conduct controlled experiments, draw conclusions and communicate their results. Students will also participate in a Group 4 research project. Upon completion of the course, students will be prepared for the IB Biology exam. This IB course is available for students to earn an IB certificate or as part of the Diploma Programme.

IB CHEMISTRY (SL) – 519 – Year 1 / 520 – Year 2

Recommended: Please see the recommended sciences for IB students.

Graded: Weighted Grades: 11-12

Time Frame: 2 Years Credit: 2.00

IB Chemistry (SL) gives students an introduction to chemical concepts, makes them familiar with materials at an atomic level and prepares them for higher scientific study such as pre-medicine. Investigations of chemical phenomena are set in a global context so that students develop an understanding of the way in which chemistry affects people throughout the world. This course also gives students an awareness of how scientists work and communicate with each other through practical applications. Students learn and apply a body of knowledge and methods and techniques to develop experimental design and use investigative skills. Students also learn the value of effective communication and collaboration and how to use technology to convey scientific information. Topics include, atomic structure, periodicity, kinetics and organic chemistry. This IB course is available for students to earn an IB certificate or as a part of the Diploma Programme. ***This class is only offered at Dublin Jerome High School.**

IB CHEMISTRY (HL) – 521 – Year 1 / 522 – Year 2

Highly Recommended: Biology and either Physical Science or Physics

Graded: Weighted Grades: 11-12

Time Frame: 2 Years Credit: 2.00

IB Chemistry (HL) is 2-year, experimental science course that emphasizes the acquisition and analysis of data in the chemical sciences. It is intended for students who wish to obtain a strong background in chemistry. The class covers traditional topics that would be learned in a first year college chemistry course, with additional topics found in organic chemistry, biochemistry and pharmacology courses. Students interested in medical fields would benefit from the exposure these additional topics would provide. Topics that are covered include data processing, quantitative chemistry, atomic structure, periodicity, bonding, energy, kinetics, equilibrium acids and bases, oxidation and reduction, organic chemistry, human biochemistry, and medicines and drugs. As a result of the rigor and depth of the information presented, colleges may grant credit based upon the marks earned on lab reports (internal assessments) and the IB

exam given in the second year in May. ***This course is offered at Dublin Coffman High School and Dublin Scioto High School only.**

IB PHYSICS (SL) – 523 – Year 1 / 524 – Year 2

Highly Recommended: Algebra II, Biology and either Chemistry or Physical Science

Graded: Weighted Grades: 11-12

Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 – senior year

IB Physics (SL) is a 1-period, 2-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 knowledge. Course topics include: measurement; mechanics; thermal physics; waves; electricity and magnetism; atomic and nuclear physics; energy and power; and astrophysics. This course will develop students' experimental and investigative scientific skills. To meet this aim, twenty-five percent of a student's classroom time is devoted to performing practical (laboratory) work that covers a range of topics and skills as well as an interdisciplinary Group 4 Project. This course is available for students to earn an IB certificate or as part of the Diploma Programme. ***This course is offered at Dublin Coffman High School only.**

IB PHYSICS (SL) – 523 – Year 1 / 524 – Year 2

Highly Recommended: Algebra II, Biology and either Chemistry or Physical Science

Graded: Weighted Grades: 11-12

Time Frame: 1 Year (1 sem. - 2 per.) Credit: 1.50

IB Physics (SL) is a 1-year course that is double blocked for one semester. The course is 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 knowledge. Course topics include: measurement; mechanics; thermal physics; waves; electricity and magnetism; atomic and nuclear physics; energy and power; and astrophysics. This course will develop students' experimental and investigative scientific skills. To meet this aim, twenty-five percent of a student's classroom time is devoted to performing practical (laboratory) work that covers a range of topics and skills as well as an interdisciplinary Group 4 Project. This course is available for students to earn an IB certificate or as part of the Diploma Programme. ***This course is offered at Dublin Jerome High School and Dublin Scioto High School only.**

IB ENVIRONMENTAL SYSTEMS & SOCIETIES (SL) – 525

Recommended: Biology

Graded: Weighted Grades: 11-12

Time Frame: 1 Year (1 sem. - 2 per.) Credit: 1.50

IB Environmental Systems and Societies investigates the complex systems of nature and humans' impact on the earth. The goal of the course is to provide students with the scientific principles, concepts and methodologies required to understand the systems 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. This IB course is available for students to earn an IB certificate or as part of the IB Diploma Programme. ***This course is offered at Dublin Jerome High School and Dublin Scioto High School.**

GROUP 5: MATHEMATICS

Prerequisite: AP Calculus BC / IB Math (HL Yr. 1)
Elective: Grade: 11-12
Graded: Weighted Credit: 1.00 – junior year / 1.00 – senior year
Time Frame: Two Years (both may be taken concurrently)

Further Mathematics at the higher level is a two-year course that builds on the content explored in IB Mathematics HL and requires students to use a wide range of analytic and technical skills. The course focuses on several different branches of advanced mathematics to encourage students to appreciate the diversity of the subject and to provide students with the opportunity to form an overview of the characteristics that are common to all mathematical thinking, independent of topic or branch. Students will continue to work with series and differential equations and study new topics including geometry, sets, relations and groups, statistics and probability and discrete mathematics. This IB course is available for students to earn an IB course certificate or as part of the Diploma Programme. ***This class is offered at Dublin Coffman High School only.**

GROUP 6: THE ARTS OR ELECTIVES

IB MUSIC (SL) – 513 – Year 1 / 514 – Year 2

Prerequisite: Music Theory or Instructor Permission
Graded: Weighted Grades: 11-12
Time Frame: 2 Years Credits: 2.00

IB Music (SL) is a rigorous 2-year music course investigating four basic strands of music: perception, creative expression/performance, historical and cultural heritage, and critical evaluation. The Standard Level Solo (SLS), Standard Level Group (SLG), and Standard Level Composition (SLC) courses are designed for the student who has a background in musical performance, composition, or with a general interest in music. At the end of the second year, the Standard Level music student must sit for the IB exam and submit materials for external assessment in the spring. Music theory is the foundation of the class all IB students must understand musical form, structure and analysis. This IB course is available for students to earn an IB certificate or as a part of the Diploma Programme. ***Available only at Dublin Coffman High School and Dublin Jerome High School**

IB MUSIC (HL) – 515 – Year 1 / 516 – Year 2

Prerequisite: Music Theory or Instructor Permission
Graded: Weighted Grades: 11-12
Time Frame: 2 Years Credits: 2.00

IB Music (HL) is a rigorous 2-year music course investigating four basic strands of music: perception, creative expression/performance, historical and cultural heritage, and critical evaluation. The Higher Level course is designed for the music student who has a background or major interest in music performance. This student may intend to pursue music at the university or conservatory level, perform in a professional band, or have the skills to perform at an advanced level. At the end of the second year, the higher-level music student must sit for the IB exam and submit materials for the external assessment. Music theory is the foundation of the class all IB students must understand musical form, structure and analysis. This IB

course is available for students to earn an IB certificate or as a part of the Diploma Programme. ***Available only at Dublin Jerome High School.**

IB THEATER (SL) – 551 – Year 1 / 552 – Year 2

Prerequisite: Theater I would be beneficial.
Graded: Weighted Grade: 11-12
Time Frame: 2 Years Credit: 2.00

IB Theatre (SL) is a 2-year program that focuses on four areas of theatrical studies: theatre in the making, theatre in performance, theatre in the world and an independent project. Standard Level students do not need any prior experience in theatre and they are not required to participate in theatre outside of the class. ***Available only at Dublin Jerome High School and Dublin Scioto High School.**

IB THEATER (HL) – 557 – Year 1 / 558 – Year 2

Prerequisite: Theater I would be beneficial.
Graded: Weighted Grade: 11-12
Time Frame: 2 Years Credit: 2.00

IB Theatre (HL) is a 2-year program that focuses on four areas of theatrical studies: theatre in the making, theatre in performance, theatre in the world and an independent project. Higher Level students do not need any prior experience in theatre. They are encouraged to participate in some capacity (acting or technical) in one school or outside production some time during their two years in IB Theatre. ***Available only at Dublin Jerome High School and Dublin Scioto High School.**

IB VISUAL ARTS (SL) – 531 – Year 1 / 532 – Year 2

Prerequisite: Art Foundations, Drawing and/or Painting highly recommended
Graded: Weighted Grade: 11 and 12
Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 – senior year

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from a variety of local, regional, national, international and intercultural perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture.

IB VISUAL ARTS (HL) – 533 – Year 1 / 534 – Year 2

Prerequisite: Art Foundations, Drawing and/or Painting highly recommended
Graded: Weighted Grade: 11 and 12
Time Frame: 2 Years Credit: 1.00 – junior year / 1.00 – senior year

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from a variety of local, regional, national, international and intercultural perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture.

***Selection of the IB Standard Level or Higher Level courses will be determined by both Diploma requirements and student commitment. The two-year course is assessed according to IB criteria, which will be available to students at the onset of the course. Students will supply some materials.**

IB COMPUTER SCIENCE (SL) – 547
IB COMPUTER SCIENCE (HL) – 548

Prerequisite: Introduction to Computer Programming
Graded: Weighted Grade: 11-12
Time Frame: Year Credit: 1.00

The IB Computer Science curriculum provides a rigorous framework for the exploration of problem solving using computers. Students are expected to master the JAVA programming language and appropriate object-oriented software design techniques equivalent to the first programming course offered at many colleges. Each student will develop a Program Dossier to demonstrate mastery of the basic computer science techniques. Students will sit for the IB Computer Science exam in the spring. This course will also prepare students for the AP Computer Science exam. Topics to be covered include programming design and methodology, data types and structures, procedures and functions, arrays, algorithms, and the societal implications of computer technology. Summer assignments may be required. Although IB Computer Science is part of the Group 5: Mathematics and Computer Science, students take this as their 6th IB subject.