

INTERNATIONAL BACCALAUREATE

The International Baccalaureate (IB) aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect. To this end the organization works with schools, governments and international organizations to develop challenging programmes of international education and rigorous assessment. These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

In Onslow County, students may participate in IB programmes from the elementary level at Clyde Erwin Elementary Magnet School, to middle school at Northwoods Park Middle School, and in the Diploma Programme at Jacksonville High School.

The IB Diploma Programme (DP) is a rigorous course of study, and the ideal IB student is an independent, motivated learner. A student with average ability, who is willing to work and has consistent and organized work habits, will succeed.

The DP is built around a curriculum containing six subject groups (Language, Second Language, Individuals and Societies, Experimental Sciences, Mathematics and Computer Science and the Arts) and a core of three parts (theory of knowledge, extended essay and creativity, action and service). "The IB Diploma Programme is designed as an academically challenging and balanced programme of education with final examinations that prepares students for success at university and life beyond." (IBO)

IB Career Certificate Program (IBCP) allows students to specialize in, and focus on, a career-related pathway to higher education, further education, work or apprenticeships. The programme's three-part framework comprises the study of at least two Diploma Programme courses alongside career-related studies and the distinctive IBCP core which is designed to create a bridge that connects each student's chosen Diploma Programme courses and career-related studies. For IBCP students, Diploma Programme courses provide the theoretical underpinning and academic challenge; career-related studies further support the programme's academic strength and provide practical real-world approaches to learning; and the IBCP core helps them to develop skills and competencies required for lifelong learning.

IB courses, the IB Diploma Programme, and the IB Career Certificate Program are offered at Jacksonville High School. For more information about the IB Diploma Programme, please contact Laura Rumbley, JHS IB Diploma Programme Coordinator at (910) 989-2048. For information about the IB Career Certificate Program, please contact Beth Bailey, JHS IBCP Coordinator at (910) 989-2048. You can also contact Michael Elder or Michelle Chadwick in the Division of Academic Innovation at (910) 455-2211.

APPROACHES TO LEARNING-INTERNATIONAL BACCALAUREATE

Course Code: 0I008X0CIB

Fee (if applicable): n/a

Offered at: JHS

Grade(s): 11,12

Prerequisite: Application and acceptance into the IB Career-Related Certificate Programme

This course challenges International Baccalaureate Career-related Certificate (IBCC) students in the following four areas: thinking, intercultural understanding, communication, and personal development. The focus of the ATL course is studying what we know in a specified career and technical field of knowledge and how we know it. Students are led to make connections and examine the ethics, value judgments, and belief systems of the various disciplines. Through the ATL course, students will develop good intellectual habits; practical problem-solving skills; ethical, creative and lateral thinking skills; thinking critically about the ethical dimensions of situations; self-awareness; individual strengths and limitations; intercultural awareness through increasing their understanding of cultural characteristics and differences; communication skills through refinement of their oral and written communication skills; personal and interpersonal skills of management and organization for the workplace and beyond; the skills of reflection and critical thinking in personal, social and professional situations; and an

understanding that many questions, issues or problems do not always have simple right or wrong answers.

INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY-INTERNATIONAL BACCALAUREATE

Course Code: BIO58X0CIB

Fee (if applicable): \$15

Offered at: JHS

Grade(s): 11,12

Prerequisite: Acceptance into the International Baccalaureate Diploma Programme

ITGS is a rigorous study and evaluation of the impacts of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the access and use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts. This course requires college-level performance and work habits. This course will encompass two (2) full semesters. Internal assessments are required throughout the course and a final external exam is given at the end of the course.

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ENGLISH III-INTERNATIONAL BACCALAUREATE (HL)

Course Code: 1I008X0CIB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Acceptance into the International Baccalaureate Diploma Programme

Recommendation: English II Honors or English III Honors

ENGLISH IV-INTERNATIONAL BACCALAUREATE (HL)

Course Code: 1I038X0CIB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 12

Prerequisite: English III & IB English Grade 11

This two-year course consists of four parts: Part I (World Literature), Part II (Detailed Study), Part III (Groups of Works), and Part IV (School's Free Choice). Parts I and IV are covered in the first year; Parts II and III are covered in the second year. Works are selected according to IB requirements and from Prescribed Book Lists so as to cover all genres and time periods of World and Western Literature within the two-year course. Written and oral assignments are graded both internally and externally by the International Baccalaureate Organization. In the first year of the program, students will write two externally assessed World Literature papers which count 20% of the student's Language A1 diploma score. In the second year of the program, students will sit for the IB exam which consists of two papers, one on Groups of Works and one a written commentary on either a piece of prose or a poem. This class is weighted on a six-point scale.

MATHEMATICS I-INTERNATIONAL BACCALAUREATE (SL)

Course Code: 2I028X0CIB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into IB Programme of Study

Recommendation: Pre-Calculus

The IB DP mathematics standard level (SL) course focuses on introducing important mathematical concepts through the development of mathematical techniques. The intention is to introduce students to these concepts in a comprehensible and coherent way, rather than insisting on the mathematical rigour required for mathematics HL. Students should, wherever possible, apply the mathematical knowledge they have acquired to solve realistic problems set in an appropriate context.

MATHEMATICS II-INTERNATIONAL BACCALAUREATE (SL)

Course Code: 2I038X0CIB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 12

Prerequisite: Application and acceptance into IB Programme of Study.

IB Mathematical Methods is a rigorous, two-year course of study. The first year encompasses pre-calculus, which establishes a foundation for the second year. IB Math Methods II is an introduction to the study of differential and integral calculus with emphasis on application and extends concepts of vectors, probability, statistics, exponential, and logarithmic functions. IB Math Methods I and II require college-level performance and work habits. A three and one half-hour external IB examination is given at the end of the second year.

MUSIC I-INTERNATIONAL BACCALAUREATE (HL)

Course Code: 5I058X0CIB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into the IB Programme of Study

MUSIC I-INTERNATIONAL BACCALAUREATE (SL)

Course Code: 5I048X0CIB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into the IB Programme of Study

This course will help students to develop their knowledge and potential as musicians, both personally and in their work with others. IB Diploma Programme music students study musical perception and actively listen to music from many different countries, cultures and time periods. Students develop their aural perception and understanding of music by learning about form, notation systems, musical terminology and context. Students will become informed, reflective and critical practitioners in the arts, understand the dynamic and changing nature of the arts, and explore and value the diversity of the arts across time, place and cultures. Students will express their knowledge of music by writing about music, and through creating and performing music.

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BIOLOGY II-INTERNATIONAL BACCALAUREATE (HL)

Course Code: 3I018X0CAB **Fee (if applicable):** \$5

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into IB Programme of Study.

BIOLOGY III-INTERNATIONAL BACCALAUREATE (HL)

Course Code: 3I018X0CBB **Fee (if applicable):** \$5

Offered at: JHS **Grade(s):** 12

Prerequisite: Application and acceptance into IB Programme of Study.

Higher level International Baccalaureate Biology is a two-year course of study which emphasizes basic biochemistry, cell structure and function, genetic patterns of inheritance, plant form and function, evolution, ecology, animal physiology and the international nature of science. An interdisciplinary group project helps students realize that one discipline is not isolated from another and that scientists can work together on problems to discover solutions to a common goal. Requiring structured labs, research papers and experimental design projects emphasizes laboratory work. Instruction is student-centered with cooperative learning as well as teacher directed, thus offering the student a college-level biology experience. Students will sit for the higher level International Baccalaureate Biology exam in the spring of their senior year. The IB Internal Assessment for this course includes formal lab reports, informal lab notebook excerpts, and participation in the IB Group 4 Project.

CHEMISTRY I-INTERNATIONAL BACCALAUREATE (SL)

Course Code: 3I028X0CAB **Fee (if applicable):** \$5

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into IB Program of Study.

Recommendation: Honors Biology and Honors Chemistry

CHEMISTRY II-INTERNATIONAL BACCALAUREATE (SL)

Course Code: 3I028X0CBB **Fee (if applicable):** \$5

Offered at: JHS **Grade(s):** 12

Prerequisite: Application and acceptance into IB Program of Study.

International Baccalaureate Chemistry can be taken in the junior and senior year as a Standard Level (SL). It is designed to expand on the knowledge and experimental skills obtained in Chemistry and to prepare the student for further study of pure and applied sciences in higher education. It will also help the student to develop the ability to analyze scientific literature critically and to develop manipulative and experimental skills necessary to perform college level scientific investigations. Topics include Stoichiometry, Atomic Theory, Chemical Bonding, States of Matter, Carbon

Chemistry, and the Periodic Table. Students will sit for the Standard Level International Baccalaureate Chemistry exam at the end of the course. The IB Internal Assessment for this course includes formal lab reports, informal lab notebook excerpts, and participation in the IB Group 4 Project.

PHYSICS I-INTERNATIONAL BACCALAUREATE (SL)

Course Code: 3I048X0CAB **Fee (if applicable):** \$5

Offered at: JHS **Grade(s):** 11

Prerequisite: None

PHYSICS II-INTERNATIONAL BACCALAUREATE (SL)

Course Code: 3I048X0CBB **Fee (if applicable):** \$5

Offered at: JHS **Grade(s):** 12

Prerequisite: Application and acceptance into IB Program of Study.

Standard Level International Baccalaureate Physics is a two-year course of study, which emphasizes the two basic scientific domains of knowledge and activity within the framework of understanding natural physical phenomena. An interdisciplinary group project helps students realize that all scientific disciplines share the common goal of understanding how the world works and that scientists can work together on problems to discover solutions to a common goal. Laboratory work is emphasized and requires structured labs, research papers and experimental projects. Instruction is student-centered with cooperative learning as well as teacher direction, thus offering the student a college-level physics experience. Students will sit for the Standard Level International Baccalaureate Physics exam at the end of the course. The IB Internal Assessment for this course includes formal lab reports, informal lab notebook excerpts, and participation in the IB Group 4 Project. This class is weighted on a six-point scale.

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HISTORY OF THE AMERICAS I-INTERNATIONAL BACCALAUREATE (HL)

Course Code: 4I008X0DAB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into IB Programme of Study.

Recommendation: World History and American History: The Founding Principles, Civics and Economics

HISTORY OF THE AMERICAS II-INTERNATIONAL BACCALAUREATE (HL)

Course Code: 4I008X0DBB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into IB Programme of Study.

History of the Americas (HL) is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials of a course which combines United States and Latin American History. Students are given grounding in the subject matter of the Americas and in major interpretive questions that derive from the study of selected themes. The approach will combine the methods of the traditional survey course with a closer examination of major themes and problems, centered on topics of the Americas. This two-fold approach will include supplementary readings in the form of documents, essays, and books on special themes. This course meets the United States History requirements for graduation as well as the junior year for IB credit.

THEORY OF KNOWLEDGE-INTERNATIONAL BACCALAUREATE

Course Code: 0I018X0CIB **Fee (if applicable):** n/a

Offered at: JHS **Grade(s):** 11,12

Prerequisite: Application and acceptance into IB Program of Study.

A unifying element in the Diploma Program centered on student reflection and questioning, the Theory of Knowledge course encourages critical thinking about knowledge itself to help young people make sense of what they encounter. This year-long course examines the philosophical framework of each academic discipline while reflecting critically and logically on ideas originating in the other courses. One essay of 1200-1600 words, numerous shorter length written papers, and oral presentations are required.

SPANISH IV-INTERNATIONAL BACCALAUREATE

SPANISH V-INTERNATIONAL BACCALAUREATE

Course Code: 1I158X0CAB **Fee (if applicable):** n/a
1I158X0CBB

Offered at: JHS **Grade(s):** 11,12

Prerequisite: None

Students in this course have either successfully completed high school Level I-III courses as well as enrolled in the IB Programme of Study. These 2 courses will offer an increased competency in understanding, speaking, reading, and writing the language. Discussions, conversation and study of the culture will be enhanced by the readings of selected novels, short stories, essays, drama, poetry, newspapers, and magazines. The study of advanced grammar concepts will be used with emphasis on communication as well as accuracy. In this course students develop increased proficiency in the foreign language. The development of listening, speaking, reading, and writing skills continues through questions, discussion, and presentations. Foreign language is used exclusively as the vehicle for communication. Pertinent culture, grammar, and syntax are presented and applied in context. Students must maintain a portfolio of written work and produce audiocassette tapings throughout the course. Both written and oral assessments are required.