



AIS High School
Course Catalog

Description and purpose of document:

The AIS High School Course Catalog is intended to guide students to select an appropriately rigorous and engaging program of study, which meets graduation requirements and tailors to their individual interests and future goals. Please see below courses that are potentially offered each year. Note that course offerings each year will depend upon student interest and instructor availability.



ANTIGUA INTERNATIONAL SCHOOL

Think critically. Act ethically. Serve others.
Km. 74.8 Ruta Nacional 14, Ciudad Vieja, Sacatepéquez.
www.antiguaais.org

MISSION

The Antigua International School is committed to providing the best education in Central America for all who seek it regardless of economic or social status. Through a strong, internationally focused liberal arts curriculum and individualized attention, AIS challenges students to cultivate a love of learning, lead an ordered life and accept personal responsibility.

VISION

To guide children to pursue their own ethical highest purpose by teaching them how to think and serve others, so that they transform Guatemala and the world.



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Graduation requirements

AIS is accredited by the New England Association of Schools and Colleges and meets the requirements established by the Ministry of Education of Guatemala (MINEDUC). 28.5 credits are required for graduation, including 4 credits each of English, Spanish, Social Studies, Science, and Math, 2 elective credits (.25 per year meeting technology requirement), 1.5 credits each of fine arts and PE, and the following MINEDUC requirements:

MINEDUC REQUIREMENTS FOR GUATEMALA DIPLOMA BY GRADE					
9TH/ 10TH	Kaqchikel / Mayan Language	0.5	9TH/ 10TH	Emprendimiento y Desarrollo	0.5
11TH	Metodología de la investigación	0.5	12TH	Seminario / Capstone	1
11TH	Psychology	0.5	11TH	Philosophy	0.5

Individualized Pathways

There are several ways for students to personalize their graduation plan based on personal interests, special abilities, and future goals. AIS offers a range of Advanced Placement (AP) courses and recommends various online providers for additional online course offerings. Students who need additional support in English or Spanish language acquisition receive support through the AIS Language Support program and plans for an additional language course (French, Portuguese, etc.) can be designed with the help of the college counselor.

The Advanced Placement Program is an academic program that offers college-level courses and exams to high school students, developed by the College Board. Students who perform well on AP exams can earn college credit, placement, or strengthen their university applications. This school year we will be offering the following courses: AP Spanish Language and Culture, AP Biology, AP Seminar, AP World History:Modern, AP Psychology, and AP Spanish Language and Literature.

The Antigua International Seminars at AIS are a signature Honors-level program where small groups of students engage deeply with great books, big ideas, and meaningful discussions that build critical thinking. Rooted in the classical liberal arts tradition and guided by the AIS mission, these seminars help students think critically, act ethically, and serve others in a globally minded, forward-thinking environment. We will be offering the following: US History, History Seminar, English Seminar, and Honors Medicine + Health Seminar.

METODOLOGÍA DE LA INVESTIGACIÓN

Research and investigation methodology practices that students can refer to and apply in other academic / research settings.

SEMINARIO

Students formulate, design and execute a local project that responds to a student-identified local need using research skills and reflection to know and encourage active citizenship.

KAQCHIKEL

Through the teaching of the local Mayan language, we see students value and appreciate the multicultural richness of the country.

EMPREDIMIENTO

Students learn entrepreneurship concepts and skills that allow them to plan and execute projects, in groups or individually.

CURRICULUM

AIS offers an international, liberal arts - based curriculum with a strong emphasis on cross-disciplinary learning and critical thinking. Students are encouraged to pursue independent research and project development, preparing them for universities in Guatemala and abroad.

STATUS

Not for profit, international school under the Fundación Antigua International School.



FOUNDED 2011.

AP PROGRAM

Students are able to choose from a variety of AP courses in grades 9-12. Courses are offered during the school day in person or through an online provider. Taking the AP exam is optional.



AP English Literature



AP Spanish Literature



AP Psychology



AP Biology



AP Spanish Language



AP Studio Art: 2D & Design

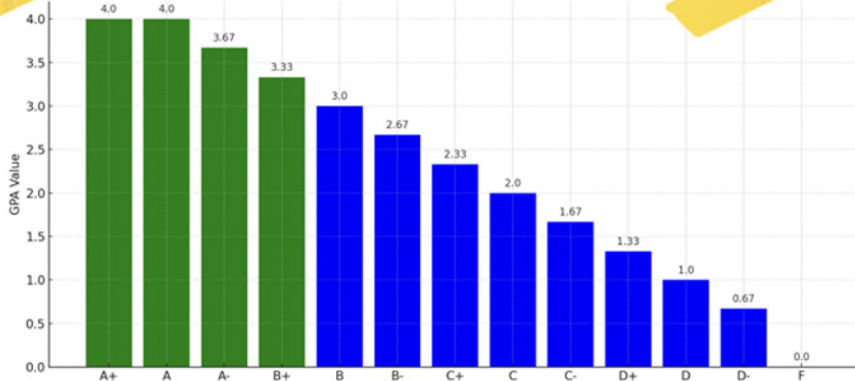


AP World History: Modern

Students opting to take other AP courses can do so with one of the recommended providers.

REPORTING

GPA Reporting Scale



The Antigua International School follows a quarter calendar. We report a cumulative, unweighted GPA which averages all courses from grades 9 - 12. The average GPA for the class of 2025 was 3.21. Please refer to the chart as a suggested interpretation.

Online Providers

At AIS, we recognize that education is evolving. To broaden learning opportunities and support diverse student interests, we have collaborated with various accredited online course providers. These platforms can supplement AIS's curriculum by offering specialized subjects such as world languages, Advanced Placement (AP) classes, and STEM elective courses.

Find the list of recommended Online Providers and more information [HERE](#).

Course Offerings

Languages

English Department

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
9	9th Grade English Language Arts (ELA)	9th Grade ELA focuses on an introduction to key literary and stylistic terms and an understanding of how to identify these elements within a text. They will begin to practice analysis skills through passage annotation and analysis. Students will largely focus on plot progression and development during this school year in our approach to fiction, and a capstone assignment will be given for students to read and present on a book of choice, mapping its progression and analyzing it for key textual elements. Students will complete formal writing such as: persuasive essay, scaffolded analysis essay, and literary reflective writing. Creative writing will include: a memoir-metaphor essay, portfolio of poems of identity, and a creative short story. Students will also complete Socratic discussion, oral presentations and projects, acting, debates, and written exams. Potential texts include <i>To Kill a Mockingbird</i>, <i>Lord of the Flies</i>, <i>A Midsummer Night's Dream</i>, and <i>Romeo and Juliet</i>. Students will also study Poetry (poetry and the individual), and Short Stories. 1 credit, English	All year
10	10th Grade English Language Arts (ELA)	10th Grade ELA focuses on the continuation of the literary skills developed in 9th grade. Students will be given more literary terms to add to their vocabulary, and though they will continue to discuss plot progression, they will also learn about characterization and character progression. Students will learn about the importance of various contexts (historical, political, etc.) in informing the purpose and interpretation of a text. Students will complete a photojournalism capstone project this school year. Students will complete formal writing such as: literary analysis essays, reflective analysis, and synthesis essays. Creative writing projects will include a portfolio of formal poetry and character pastiche. Students will also complete Socratic discussion, oral presentations and projects, acting, debates, and written exams. Texts may include <i>Of Mice and Men</i>, <i>Never Let Me Go</i>, <i>The Crucible</i>, <i>Oedipus</i>, <i>McBeth</i>, and a variety of novels for a final quarter lit circle unit. Students will also study Formal Poetry and memoir writing. 1 credit, English	All year
11/12	Media Literacy	Media Literacy explores the relationship between literature, language, and contemporary media, with attention to how texts shape and reflect culture, identity, and power. Students examine a range of literary and non-literary works—including political rhetoric, satire, and emerging AI discourse—to analyze how meaning is constructed across historical and modern contexts. The course emphasizes critical reading, thoughtful comparison, and an informed understanding of today's media landscape. 1 credit, English	All year



Languages

English Department

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
11/12	Honors English Seminar	This interdisciplinary seminar uses literature and philosophy to investigate the enduring question: What makes a life meaningful, and what do we owe others in the process of becoming? Organized around four existential tensions—Desire, Creation, Suffering, and Responsibility—the course invites students to explore how storytelling shapes both personal identity and public moral understanding. Through close reading and inquiry-based discussion of novels, essays, and cross-cultural philosophical texts, participants analyze how literature illuminates contested debates regarding power, justice, and agency. Students will refine their ability to articulate original insights through sophisticated argumentation and interpretive writing. Ultimately, this course fosters the intellectual independence and empathetic engagement necessary for navigating the complexities of adulthood 1 credit, English.	All year
11/12	AP Seminar	AP Seminar will be an inquiry-driven course that invites students to explore big questions about language and identity, literary protest, persuasion and propaganda, advertising, and AI as media. We will examine how language shapes culture, how writers use literature as resistance, how rhetoric influences public opinion, and how emerging technologies complicate what it means to communicate and even what it means to be human. Students will learn to craft meaningful research questions, evaluate sources carefully, synthesize multiple perspectives, and build clear, evidence-based arguments. Through sustained practice in academic writing, collaborative research, and formal presentations, students will grow as critical thinkers and confident public speakers, preparing them for the AP Seminar Performance Tasks and for thoughtful engagement with the world beyond the classroom. 1 credit, English	All year

SPANISH Department

9	Comunicación y Lenguaje	El objetivo fundamental de este curso es que los estudiantes desarrollen habilidades prácticas del idioma español en las cuatro competencias básicas: Escucha activa, lectura comprensiva, redacción y expresión oral. Se promueven actividades en las cuales los estudiantes deben manifestar un adecuado desempeño comunicativo oral y escrito, desarrollo de la lectura y ensayos argumentativos escritos, en diversos contextos, comprensión de diversos tipos de textos que al inicio del curso los estudiantes seleccionan una lectura de su gusto. Seguidamente, este curso se apoya en los recursos impresos y digitales de la Plataforma Casals con análisis de fragmentos de obras de autores españoles como: Carlos Ruíz Zafón: La sombra del viento, El príncipe de la Niebla. Otros autores son Pío Baroja, Ramón Gómez de la Cerna. Alberto Espinoza, Arturo Pérez Reverte y Mónica Jurado. 1 credit, Spanish	Todo el año
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9	AP Spanish Language and Culture	Este curso está diseñado para proveer oportunidades para que los estudiantes demuestran proficiencia en comunicación interpretativa, interpersonal y presentación (oral, auditiva, escrita y leída). Alumnos investigarán países hispanohablantes para obtener un conocimiento general de la cultura e historia. Durante el curso se desarrollan diferentes actividades prácticas para que los estudiantes desarrollen y fortalezcan de manera integral el idioma español y su uso en diferentes contextos reales, en preparación a los estudiantes para el examen AP de Lengua y Lengua Española del College Board. Los recursos de Lectura para reforzar temas de Cultura y Lenguaje están incluidos en la Plataforma College Board. 1 credit, Spanish	Todo el año
10	Literatura Española	El enfoque del curso de Literatura Española es leer y desarrollar una apreciación para la literatura española desde la Edad Media hasta el siglo XIX. Los alumnos adquirirán conocimientos de un panorama general de las principales etapas de la Literatura española, de sus corrientes estéticas fundamentales y de sus géneros literarios destacados. También identificarán un repertorio básico de textos, correspondiente a los géneros literarios y autores sobresalientes de cada periodo literario, incluyendo Miguel de Cervantes Saavedra (Don Quijote de la Mancha), Calderón de la Barca (El Alcalde de Zalamea), José de Espronceda (El estudiante de Salamanca), Gustavo Adolfo Bécquer (Rimas y leyendas, José de Zorrilla y Rosalina de Castro), Juan Ramón Jiménez (Platero y yo), Benito Pérez Galdós (Marianela). Se evaluará la reflexión crítica sobre los contenidos y lenguaje literario por análisis escritos y presentaciones. 1 credit, Spanish	Todo el año
11	Literatura e Historia de Guatemala	La materia de Literatura e Historia de Guatemala es una conexión de sucesos históricos y corrientes literarias de Guatemala, que incluyen los diferentes poetas, novelistas, cronistas, críticos de la literatura, historiadores. La línea de tiempo de este curso va desde los textos precolombinos de la cultura Maya hasta el tiempo contemporáneo en Guatemala. Integra los lineamientos de MINEDUC. Es un curso en un contexto que integra subtemas que se alinean con los procesos históricos sucedidos en el país a través de los siglos así como las lectura de libros de autores Guatemaltecos como Miguel Ángel Asturias, Jose Milla y Vidaurre, Francisco Pérez de Ánton, Virgilio Rodríguez Macal, Augusto Monterroso, Luis Cardoza y Aragón, Flavio Herrera, Margarita Carrera, Yolanda Colom, Ronald Flores y Rodrigo Rey Rosa. El Producto final es crear una historia de narrativa contemporánea.	Todo el año

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
12	Literatura Hispanoamericana	La materia de Literatura Hispanoamericana abarca desde la literatura precolombina hasta la literatura contemporánea. Este curso tiene bibliografía de referencia como lo son algunas novelas de escritores Hispanoamericanos, textos históricos y libros de texto. Libros que se utilizan: La Casa de los Espíritus de Isabel Allende, Week-end en Guatemala de Miguel Ángel Asturias, El Coronel no Tiene Quien le Escriba de Gabriel García Márquez. En este curso se realiza un diario de un libro Week-end donde se incluyen todos aquellos eventos que sucedieron en la data que nos narra el libro. El proyecto final es hacer una historiografía documentada. 1 credit, Spanish	Todo el año
12	AP Spanish Literature and Culture	El curso AP de Literatura y Cultura Española dará a los estudiantes una experiencia de aprendizaje equivalente a la de un curso universitario de introducción a la literatura escrita en español. Este curso temático introduce a los estudiantes al estudio formal de un conjunto representativo de textos de la literatura española peninsular, latinoamericana e hispánica estadounidense, incluyendo cuentos, novelas, poesía, teatro y ensayos, desde la época medieval hasta la actualidad. 1 credit, Spanish	Todo el año
9-12	Spanish as an Additional Language	For high school students who join Antigua International School as beginning Spanish speakers, learning Spanish as a second language can be an exciting and rewarding experience. In the AIS Spanish as an Additional Language (SAL) program, students will begin by learning the basics of Spanish grammar, vocabulary, and pronunciation. With the guidance of experienced teachers and a supportive learning environment, students can expect to make significant progress in their Spanish language skills and develop a lifelong appreciation for the language and culture. 1 credit, Spanish	Todo el año

Social Sciences FULL CREDIT COURSES AND EXTENSIONS

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
9	Foundations of History, Economics, and Politics	Grade 9 this course introduces students to key ideas in history, economics, and political science by exploring revolutions, market systems, global diplomacy, and world conflicts. Through case studies, debates, simulations, and cross-curricular projects, students investigate how power, change, governance, and conflict shape societies. Major topics include the causes and effects of revolutions, the impact of economic systems, the structure and effectiveness of the United Nations, and the dynamics of global wars. Students develop critical thinking, research, and analytical skills while connecting historical and contemporary issues across disciplines. 1 credit, social studies	All Year
9	Honors United States History Seminar	The course begins with a brief foundational unit on the origins of the United States, focusing on the Constitution and the creation of the American system of government. Note that this unit is to be completed over the summer and is required in order to enroll in the course. This mini-unit provides essential context for understanding the structure of U.S. democracy and the core principles of rights, power, and justice that continue to shape the nation. After establishing this groundwork, the course shifts to an in-depth exploration of major themes and events in 20th-century U.S. history, including economic crisis and reform, global conflict, civil rights movements, and ongoing debates over national identity. 1 credit, social studies	All Year
10	Geopolitics, Economics, and Human Rights	This course offers students a deep dive into the forces that have shaped the modern world, from Cold War geopolitics and ideological conflicts to global economic development, human rights diplomacy, and the lasting impact of colonialism. Through research projects, debates, simulations, and case studies, students will explore how power, ideology, and economic systems influence international relations and justice today. Hands-on experiences like Model United Nations simulations and mock trials help students apply critical thinking and collaboration skills to real-world global challenges. 1 credit, social studies	All Year

Social Sciences FULL CREDIT COURSES AND EXTENSIONS

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
11-12	Power, Justice, and Globalization	This advanced course challenges students to investigate how societies pursue justice and structure economic and political systems in response to inequality and conflict. Beginning with a historical study of apartheid and racial injustice, students analyze how legal frameworks both reinforce and dismantle systems of oppression. The course then examines economic inequality and social mobility, exploring how public policy shapes wealth distribution and opportunity. In the study of humanitarian intervention and international law, students debate the responsibilities of nations in responding to human rights crises. The final unit explores global economic systems, comparing capitalism, socialism, and mixed economies to evaluate their impact on prosperity and equity. Through research, simulations, policy analysis, and structured debate, students develop the skills to engage thoughtfully with complex global issues and to evaluate competing ideological perspectives with nuance and integrity. 1 credit, social studies	All Year
10-11-12	Honors History Seminar	This Honors Seminar invites students to explore how societies define justice and organize political and economic systems in response to inequality and conflict. Covering themes similar to those in the standard course, the seminar approaches these questions through a more advanced, student-driven model of learning grounded in discussion, inquiry, and engagement with primary sources. Throughout the seminar, students take an active role in shaping inquiry, raising questions, leading discussions, and developing arguments grounded in evidence. Through research, collaborative dialogue, policy analysis, and reflective writing, they refine the skills needed to engage thoughtfully with complex global issues and to consider competing ideas with intellectual curiosity, nuance, and integrity. 1 credit, social studies	All Year
10/11 12*	AP Modern World History	A university level history course, in which students investigate significant events, individuals, developments, and processes from 1200 to the present. The course provides six themes and makes connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. 1 credit, social studies	All Year

Social Sciences FULL CREDIT COURSES AND EXTENSIONS

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
11	Honors World Religions Seminar	Dive into the profound questions of existence in our World Religions Seminar, a one-semester intensive exploration of global faiths and philosophical traditions. This course moves beyond basic facts to examine the core ideologies that have shaped human history and culture across the centuries. As an Honors-level seminar, active student participation is the heartbeat of the class, where your insights and inquiries directly influence the curriculum's depth and direction. Students are invited to engage deeply through collaborative discussions, critical readings, and personal reflections, fostering an environment of intellectual curiosity and mutual respect.	One semester, offered in both
11	Philosophy	This course introduces students to fundamental questions about knowledge, existence, morality, and human nature. Through readings, discussions, and debates, students will engage with the ideas of major philosophers from both Western and non-Western traditions. Emphasis is placed on critical thinking, logical reasoning, and forming well-supported arguments. The course encourages open-minded inquiry and respectful dialogue about life's most profound questions. This is a required course for the MINEDUC diploma. .5 credit, Philosophy	One semester, offered in both semesters
11	Psychology	Introduction to Psychology is a general course that provides an overview of the science of psychology, which seeks to understand and explain human behavior and mental processes. The course covers topics such as research methods, biological bases of behavior, human development, sensation, perception, learning, intelligence, motivation, emotions, personality, mental disorders and their treatment, and social psychology. The course is suitable for those interested in studying psychology or those who want to gain a basic understanding of the subject. It is a requirement for the MINEDUC diploma. .5 credit, Psychology	One semester, offered only during Semester 2
11	AP Psychology	The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. The course content is organized into commonly taught units of study that provide a suggested sequence for the course: Scientific Foundations of Psychology, Biological Bases of Behavior, Sensation and Perception, Learning, Cognitive Psychology, Developmental Psychology, Motivation, Emotion, Personality, Clinical Psychology, and Social Psychology. The AP Psychology Extension meets during electives in addition to the core Psychology course and prepares students to take the AP Psychology Exam by delving more deeply into the topics listed above. 1 credit, Psychology or social studies	All Year

Social Sciences FULL CREDIT COURSES AND EXTENSIONS

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
11	Metodología de la Investigación (antes Proyectos)	Esta subárea está orientada al desarrollo de un conjunto de conocimientos teóricos y prácticos que comprende desde la formulación o planteamiento, la gestión y ejecución propiamente dicha de un proyecto hasta la evaluación final del logro de las metas o productos. El proyecto se plantea de acuerdo con las necesidades, identificadas por el grupo, que surgen en el seno de la carrera, en el marco de una necesidad familiar o comunal. Para tal efecto propone el desarrollo de las diferentes etapas del proyecto y la metodología de trabajo para realizarlas. Así también, la gestión que comprende el proceso de poner en marcha el proyecto y su ejecución, las actividades como el seguimiento y monitoreo durante toda la vida del proyecto hasta la finalización con la evaluación. (Malla curricular, MINEDUC, Guatemala 2020). En este curso se aprende todo lo necesario de metodología de investigación, se elabora una monografía y se presenta un posible Proyecto Piloto, los temas de la monografía se elaboran con las propuestas de los estudiantes de las carreras profesionales que desean seguir en la universidad. .5 créditos, Metodología de la Investigación	All Year
12	Seminario (Capstone)	La subárea de Seminario es el espacio de aprendizaje donde los estudiantes desarrollan competencias para la investigación acción, que tiene como principio el conocimiento de la realidad, la búsqueda de soluciones y transformación para construir la nueva ciudadanía. (Malla curricular, MINEDUC, Guatemala 2020). Asimismo, propicia el desarrollo del diseño, formulación y ejecución del proyecto a nivel local, lo que permitirá la vivencia de la metodología innovadora que conlleva a superar los retos que plantea una sociedad globalizante, valorando la cultura de los Pueblos, la organización y el trabajo en equipo para enfrentar los desafíos que se le presenten en la vida cotidiana. Esta subárea concretiza el "saber hacer" proporcionando un espacio para la aplicación a través de una metodología innovadora que tiene como propósito: incrementar el nivel de participación de los estudiantes en la formulación y ejecución a través de un proyecto comunitario; tomando como base el desarrollo de las competencias y destrezas ligadas al pensamiento indagador, reflexivo, iniciadas en otras áreas del CNB. 1 credit, Capstone/Seminario	All Year

Third Language

Mayan Language

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
9	Cultura Maya, Garifuna, y Xinka	Guatemala, como país multiétnico, pluricultural y multilingüe requiere que los ciudadanos escuchen, hablen, lean, escriban y comprendan en su idioma materno y en un segundo idioma nacional, según sea el contexto, para enriquecer la vida personal, social y cultural, debido a que el idioma es la base fundamental y la clave para fomentar y propiciar el encuentro, la comunicación y el trabajo conjunto con otras culturas. El abordaje del área curricular desarrolla la comunicación efectiva entre hablantes de distintos idiomas en un ambiente de respeto y de equidad, y con ello fortalece la identidad personal, cultural y social, y propicia la convivencia desde la multiculturalidad e interculturalidad. El desarrollo de esta área tiene dos propósitos: - desarrollar las competencias lingüísticas de uno de los idiomas Mayas, Garífuna o Xinka, en continuidad con las competencias desarrolladas en el nivel primario; - fundamentar y propiciar el conocimiento, la revalorización y el aprecio de la propia cultura y de la realidad multicultural y plurilingüe del país para la convivencia intercultural. .25 créditos, Cultura Maya, Garifuna, y Xinka	Todo el Año
10	Cultura Maya, Garifuna, y Xinka	Guatemala como país multiétnico, pluricultural y multilingüe requiere que los ciudadanos escuchen, hablen, lean, escriban y comprendan en su idioma materno y en un segundo idioma nacional, según sea el contexto, para enriquecer la vida personal, social y cultural, debido a que el idioma es la base fundamental y la clave para fomentar y propiciar el encuentro, la comunicación y el trabajo conjunto con otras culturas. El abordaje del área curricular desarrolla la comunicación efectiva entre hablantes de distintos idiomas en un ambiente de respeto y de equidad, y con ello fortalece la identidad personal, cultural y social, y propicia la convivencia desde la multiculturalidad e interculturalidad. El desarrollo de esta área tiene dos propósitos: - desarrollar las competencias lingüísticas de uno de los idiomas Mayas, Garífuna o Xinka, en continuidad con las competencias desarrolladas en el nivel primario; - fundamentar y propiciar el conocimiento, la revalorización y el aprecio de la propia cultura y de la realidad multicultural y plurilingüe del país para la convivencia intercultural. 25 créditos, Cultura Maya, Garifuna, y Xinka	Todo el Año

Mathematics

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
Grade 8/9	Algebra 1	The Algebra 1 course focuses on transferring concrete mathematical knowledge to more abstract algebraic generalizations. In this course, you'll learn to recognize patterns using tables, graphs, and equations. You'll explore operations on algebraic expressions, and apply mathematical properties to algebraic equations. You'll solve problems using equations, graphs, and tables to investigate linear, exponential, and quadratic relationships. 1 credit, math	All Year

Mathematics

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
Grade 9/10	Geometry	The Geometry course is a comprehensive look at the study of geometric concepts including the basic elements of geometry, proofs, parallel and perpendicular lines, the coordinate plane, triangles, quadrilaterals, polygons, circles, trigonometry, congruence and similarity, surface area, volume and transformations. 1 credit, math	All Year
Grade 10/11	Algebra 2	The Algebra 2 course focuses on graphing, interpreting and transforming functions, including linear functions, absolute value functions, quadratic functions, and polynomial functions. Additional topics include complex numbers, the complex plane, trigonometry, and logarithmic and exponential functions. 1 credit, math	All Year
Grade 11/12	Precalculus	Pre-Calculus weaves together previous study of algebra, geometry, and mathematical functions into a preparatory course for calculus. The course focuses on mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Throughout the course, Common Core standards are taught and reinforced as the student learns how to apply the concepts in real life situations. Topics include fundamental concepts of Algebra, functions and graphs, polynomials and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, topics in trigonometry, systems of equations and inequalities, matrices and determinants, conic sections and analytic geometry, sequences, induction, probability, and an Introduction to Calculus. 1 credit, math	All Year
Grade 12	Calculus	The Calculus course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral). Students will gain an intuitive understanding of the concepts of calculus and experience with its methods and applications 1 credit, math	All Year
Grade 12	Statistics	In this course, students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. 1 credit, math	All Year

Sciences **FULL CREDIT COURSES AND EXTENSIONS**

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
9th	Physical Science	This Science lab course consists of one semester of introductory Physics and one semester of introductory Chemistry, which is structured to teach and utilize the scientific method and metric measurements in all units. This course emphasizes the foundations of the atomic theory and the properties of matter as a way to understand the behavior of particles in the microscopic and macroscopic universe. The course is designed to develop scientific skills from the perspective of applied research in the laboratory program. Such skills include observing, inferring, data collecting, and graphing. 1 credit, science	All Year
10th	Biology	In this course, you will learn to think critically, analyze evidence, build models, and more. We will begin the year zooming in to discover the biochemistry of life, then we will move into the fascinating field of genetics, evolution, and finally end the year learning about ecology. 1 credit, science	All Year
10th	AP Biology	AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. 1 credit, science	All Year
11th	Chemistry	Chemistry is a one-year course where students will learn concepts regarding matter, its nature, behavior and changes from the perspective of inorganic compounds. Students will develop a comprehensive analytical understanding of the different techniques used in the laboratory in order to describe the properties of matter, and the way in which matter is classified. Students will be able to practice appreciation of science and its processes through design, data collection and analysis of a variety of student or teacher designed investigations. The primary approach to learning is based upon student discovery. 1 credit, science	All Year
12th	Physics	This General Physics course offers a two-semester introduction to calculus-based physics. The course emphasizes the underlying concepts and principles related to mechanics, dynamics and kinematics, and introduces measurement, estimating, and Newtonian mechanics. Topics include kinematics and dynamics, translational motion, vectors, circular motion, gravitation, work, energy, power, momentum and rotational motion. Introduces static equilibrium, elasticity, fluids, vibrations and waves and sound. Students explore a general introduction to electric fields and electric circuits. 1 credit, science	All Year

Sciences FULL CREDIT COURSES AND EXTENSIONS

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
12th	Environmental Science	Dive into the dynamic field of Environmental Science, where you'll explore and investigate the complex interrelationships of the natural world. This course offers a comprehensive understanding of the environment, focusing on both natural and human-made problems. Through a blend of theoretical knowledge and practical experience, you'll analyze environmental issues, their causes, and potential solutions. This course is designed for students who are passionate about understanding and addressing environmental challenges. Whether you're aiming for a career in environmental science, policy, or education, or simply seeking to be a more informed citizen, this course provides the knowledge and skills necessary to make a positive impact on the world around you. 1 credit, science	All Year

Business

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
9	Emprendimiento hacia la productividad	El curso de Emprendimiento para la Productividad es una iniciativa basada en CNB del Ministerio de Educación de Guatemala, el cual promueve aprendizajes para que los estudiantes desarrollen iniciativas creativas e innovadoras para la formulación y ejecución de proyectos de emprendimiento social y de apoyo a la comunidad local. Durante este curso se fomenta el comportamiento ético, el pensamiento crítico y el servicio a los demás. El principal enfoque es el desarrollo de los procesos integrados del emprendimiento social y empresarial. Para este propósito se toman en cuenta las tecnologías alternativas que promueven el desarrollo sostenible, con responsabilidad individual y social. Los estudiantes obtienen aprendizajes para el manejo inteligente y la administración de recursos naturales, económicos y financieros. También participan para alcanzar competencias que les garantizan aprendizajes significativos para la vida y su desenvolvimiento como líderes emprendedores. Este curso se evalúa por medio de fases de los proyectos que se realizan durante el ciclo académico. .25 créditos, Emprendimiento	Todo el Año
10	Emprendimiento hacia la productividad	El curso de Emprendimiento para la Productividad es una iniciativa basada en CNB del Ministerio de Educación de Guatemala, el cual promueve aprendizajes para que los estudiantes desarrollen iniciativas creativas e innovadoras para la formulación y ejecución de proyectos de emprendimiento social y de apoyo a la comunidad local. Durante este curso se fomenta el comportamiento ético, el pensamiento crítico y el servicio a los demás. El principal enfoque es el desarrollo de los procesos integrados del emprendimiento social y empresarial. Para este propósito se toman en cuenta las tecnologías alternativas que promueven el desarrollo sostenible, con responsabilidad individual y social. Los estudiantes obtienen aprendizajes para el manejo inteligente y la administración de recursos naturales, económicos y financieros. También participan para alcanzar competencias que les garantizan aprendizajes significativos para la vida y su desenvolvimiento como líderes emprendedores. Este curso se evalúa por medio de fases de los proyectos que se realizan durante el ciclo académico. 25 créditos, Emprendimiento	Todo el Año

Visual Arts

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
9/10	Environmental Art	Arts explore and respond creatively to the most critical issue of today: the health of our environmental landscape. We will explore land art, create art as activists and caretakers of the planet, and allow science and art to mingle in the spirit of Leonardo Da Vinci. While creating art (on and off campus) we will discuss artists such as: Ana Mendieta, Andy Goldsworthy, Ansel Adams, Georgia O'keeffe and of course, our renaissance man, Leo! This class will be offered both semesters. .25 fine arts credit per semester	One semester, class is offered both semesters
9/10	Contemporary Art and Social Relevance	In this course, artists will learn about and receive visits from contemporary artists as a means to explore the conceptual techniques and themes that are prevalent in the current creative atmosphere. Together, we will attempt to answer the question "What is ART now?" while finding our own unique voice within the headlines of today's global world. Students will contribute to collective, creative collaborations, as well as working with self-chosen individual themes to create a final project, considering their target audience to maximize social relevance. .25 fine arts credit per semester	One Semester
9/10	Photography and Original Art	Selfies, landscape, still lifes, portraits and random glimpses of time & space; Let's learn to frame a shot, document our lives, and publish our photos with a variety of platforms and mediums. Using photography as both an art form in and of itself, and as a tool to capture our own honest images for drawing and painting, this class can help students to formulate their original ideas, work with color and theme, reveal what they find most surprising, integral or fascinating about life. .25 fine arts credit per semester	One Semester
11/12	Figurative Studies	This class invites high school students to explore the human form through drawing, painting, and mixed media. Students will study anatomy, proportion, and gesture, while developing their own expressive style. Projects will include both observational work and imaginative interpretations of the figure. Emphasis is placed on building technical skills and creative confidence in a supportive studio environment. .25 fine arts credit per semester	One Semester
11/12	Exposure to Sculpture	This art elective will allow students to explore form and experience the making of sculpture. Various materials will be used including foil and masking, air drying clay, packaging tape, and clay. We will explore various sculptures throughout history and use their lives, and work, as inspiration for our studies. .25 fine arts credit per semester	One Semester

Visual Arts

GRADE(S)	COURSE TITLE	DESCRIPTION	LENGTH
11/12	Art History and Art Making	Travel back in time this first semester! This course explores the art of different civilizations from the beginning of human history, including: Prehistoric Art (Cave Paintings), Ancient Egypt (Art and Rituals, Pharaohs), Pre-Hellenic Art (Cyclades Islands, Crete, and Mycenae), Ancient Greece, Ancient Roman Art, and the Middle Ages. It also explores art as a political tool, catacomb and Gothic art, and Renaissance art, Italy, and Mannerism. .25 fine arts credit per semester	One Semester
12th	Modern Art and Murals	Calling all seniors! We need you for the important task of leaving your creative mark on A.I.S. in this second semester course. This is a great opportunity to design and complete your final art masterpiece as a class. .25 fine arts credit per semester	One semester, class if offered only during Semester 2
9/10/11	Set Design	Get hands-on and creative with our Dramatic Set Design course in second semester! By the end of the course, you'll have created a set that will wow the audience and be a crucial part of our school play. You'll learn the basics of set design, from brainstorming ideas and sketching plans to building and painting the final pieces. Work with your classmates to bring your vision to life, using real tools and materials. You'll pick up skills in teamwork, problem-solving, and creative thinking, all while making something awesome. .25 fine arts credit per semester	One semester, class if offered only during Semester 2

Performing Arts

GRADE(S)	COURSE TITLE	DESCRIPTION
9/10	Orchestra	This intermediate-level course focuses on strengthening technical and musical skills on string instruments. Students consolidate their mastery of first position, improve their bowing technique, and explore repertoire in various keys. Emphasis is placed on intermediate music reading, multi-part playing, and ensemble sensitivity within an orchestra. .25 music/fine arts credit per semester
9/10	Marimba	This intermediate-level course strengthens playing technique and hand independence. Students perform repertoire in various keys and for multiple voices, applying intermediate music reading skills. Advanced coordination, ensemble playing, and more expressive musical interpretation are fostered. .25 music/fine arts credit per semester

Performing Arts

GRADE(S) COURSE TITLE

DESCRIPTION

9/10

Choir

Intermediate level course that delves into vocal technique and choral work. Students strengthen their music reading, intonation, and expressive performance, tackling repertoire in multiple parts and different styles. Vocal independence within the ensemble is promoted, as well as the development of more complex aural and ensemble skills.

.25 music/fine arts credit per semester

9/10

Percussion

Intermediate level course focused on strengthening rhythmic reading and motor independence. Students perform more complex repertoire, incorporating advanced subdivisions and multi-part performance. Emphasis is placed on precision, group synchronization, and performance within the ensemble.

.25 music/fine arts credit per semester

9/10/11/12

Music
Appreciation

Explore the evolution of sound in our Music Appreciation course, where we dive into the lives and works of history's most influential global icons. Students will analyze how legendary masters across diverse genres shaped the foundations of melody, harmony, and rhythm. By connecting historical breakthroughs to contemporary hits, the class illustrates the profound influence these pioneers continue to have on the music of today. This course offers a vibrant journey through time, perfect for anyone looking to deepen their understanding of the soundtracks that define our world.

.25 music/fine arts credit per semester

11/12

Music Ensemble

An advanced course focused on musical performance in a flexible format, integrating string, wind, keyboard, and other instruments depending on group availability. Students consolidate their instrumental technique and explore repertoire in various keys and styles, with an emphasis on multi-part performance and independence within the ensemble.

Advanced music reading, adaptation to different roles within the group (melody, accompaniment, harmony), and the development of critical listening, sound balance, and intonation skills are promoted.

.25 music/fine arts credit per semester

11/12

Percussion

An advanced course focused on the performance of complex rhythmic repertoire in an ensemble format. Students develop a high level of precision, motor independence, and dynamic control, incorporating advanced subdivisions, polyrhythms, and time signature changes. Advanced rhythmic reading, coordination between sections, and multi-part performance are developed, promoting versatility in the use of different percussion instruments.

.25 music/fine arts credit per semester

Performing Arts

GRADE(S)	COURSE TITLE	DESCRIPTION
10/11	Marimba	An advanced course focused on the technical and musical mastery of the instrument. Students develop hand independence, precision, and dynamic control, performing repertoire in multiple voices and various keys. The use of more complex techniques is incorporated, as well as advanced music reading and ensemble performance. Expressive performance, leadership within the group, and the preparation of repertoire with a higher level of technical and musical difficulty are encouraged.
11/12	Piano	An introductory-practical course focused on keyboard recognition and the development of basic performance skills. Students learn correct posture, fingering, and coordination of both hands, as well as basic reading in treble and bass clefs. Through technical exercises and simple repertoire, students perform their first pieces with both hands, developing independence, rhythmic precision, and a basic understanding of musical structures.
9/10/ 11/12	Danza	Various dance styles will be taught, promoting coordination, rhythm, and teamwork. Classical and contemporary dance techniques will be used to support the development of both gross and fine motor skills, encouraging healthy physical growth in adolescents. By the end of the course, students will create a choreographic composition, learning the fundamentals of choreography such as rhythm, timing, musicality, tone, and theme selection.
9/10	Drama 1	.25 fine art or physical education credits Drama 1 is a high school–level performance course designed to build foundational acting skills and deepen students’ understanding of theatrical storytelling. Students will develop physical and vocal control while learning how to bring scripted characters to life. Units of study include stage movement, pantomime, voice and diction, and script analysis. Through structured exercises and performance projects, students will explore body awareness, stage presence, spatial relationships, and nonverbal communication. Vocal training will focus on projection, articulation, breath support, and expressive delivery. In script analysis, students will learn to identify character objectives, motivations, conflict, and given circumstances to support informed performance choices. The course emphasizes ensemble work, rehearsal discipline, and reflective critique. Students will perform monologues and scenes while developing confidence, collaboration skills, and a strong foundation for advanced theatre courses. .25 fine arts credit per semester
9/10	Theatre Appreciation	Theatre Appreciation is a high school course designed to explore the art, history, and impact of theatre. Students will study dramatic literature, theatrical styles and genres, and the roles of performance, design, and production in bringing a play to life. Through reading plays, analyzing performances, and participating in discussions, students will develop critical thinking skills and an understanding of how theatre reflects and influences culture. The course also examines elements such as set design, lighting, costumes, sound, and directing, helping students appreciate both the creative and technical aspects of live performance. By the end of the course, students will be able to analyze and evaluate theatre from multiple perspectives, recognize key historical movements, and articulate informed opinions about dramatic works. .25 fine arts credit per semester

Performing Arts

GRADE(S)	COURSE TITLE	DESCRIPTION
9/10	Technical Theatre	This course provides an introduction to the behind-the-scenes world of theatre, focusing on design and production elements that support live performance. Students will explore props, costumes, stage makeup, set design, and stage management, gaining hands-on experience in creating and executing these essential components. Through project-based learning and collaborative work, students will develop skills in organization, problem-solving, and attention to detail, while understanding how each element contributes to storytelling and audience engagement. By supporting productions and participating in design projects, students will gain practical experience and a deeper appreciation for the critical role of the technical team in theatre. .25 fine arts credit per semester
11/12	Improvisation	This course develops students' acting, improvisation, and ensemble skills through a dynamic combination of exercises, games, and performance projects. Students will engage in monologues, improv exercises, scene work, and collaborative storytelling, with an emphasis on building fully realized characters, strong physical and vocal technique, and confident stage presence. The course explores both short-form and long-form improvisation, teaching students to think quickly, respond authentically, and support fellow performers in an ensemble setting. Students will also examine storytelling structure, character development, and the use of space, gesture, and voice to communicate emotion, intention, and narrative. In addition to in-class exercises, students will participate in workshops, performance showcases, and peer critiques to strengthen collaboration, adaptability, and audience awareness. By the end of the course, students will demonstrate increased creativity, confidence, and versatility as performers, while gaining practical skills that can be applied to acting, writing, directing, and other theatrical endeavors. .25 fine arts credit per semester
11/12	Drama Performance	This course develops students' skills in acting, characterization, and live performance. Students will engage in monologues, scene work, and collaborative play production, focusing on ensemble trust, emotional expression, vocal and physical technique, and confident stage presence. Throughout the course, students will explore a variety of performance styles and exercises that strengthen character development, timing, and storytelling abilities. Emphasis will be placed on rehearsal discipline, constructive feedback, and working collaboratively to bring scripted material to life. The course will culminate in student-produced 10-minute plays, allowing participants to apply their skills in fully realized performances and gain practical experience with the rehearsal and production process. .25 fine arts credit per semester

Physical Education

GRADE(S)	COURSE TITLE	DESCRIPTION
9/10/ 11/12	Physical Education (General)	Physical education (PE) is a course that emphasizes physical fitness, health, and motor skill development through a variety of physical activities. In PE, students will learn basic skills and techniques related to different sports, as well as the rules and strategies of various games. Students also learn important life skills such as perseverance, individual goal setting, sportsmanship, and teamwork. PE encourages students to push themselves to achieve their personal goals while also promoting positive attitudes toward physical activity and healthy living. .25 physical education credit per semester
9/10/ 11/12	Danza	Various dance styles will be taught, promoting coordination, rhythm, and teamwork. Classical and contemporary dance techniques will be used to support the development of both gross and fine motor skills, encouraging healthy physical growth in adolescents. By the end of the course, students will create a choreographic composition, learning the fundamentals of choreography such as rhythm, timing, musicality, tone, and theme selection. .25 credits of fine arts or physical education
11/12	Independent Study: Physical Education	Students may earn physical education equivalency when they are a) enrolled in a sport or course that is endorsed or certified by universities, other educational institutions or for federated students and b) the course meets minimal time requirements (ex: 90 minutes per week). AIS will provide necessary documentation for external coaches to complete. The independent study may meet graduation requirements but will not count toward GPA.

Interdisciplinary Studies

GRADE(S)	COURSE TITLE	DESCRIPTION
11/12	Personal Project	The personal project involves students in a student-planned learning activity that solves a problem or improves a system in his/her community. The personal project begins by identifying an area of student motivation and interest. From there, students inquire into the area, communicate possible solutions, and present their findings to an authentic audience. All personal projects involve a definitive action, including outside of school engagements. .25 elective credit per semester
11/12	Career Pathways	In this elective, students will be able to do deeper career and institution research. They will create a big list of colleges, look for possible scholarships, and learn about new careers and fields of study. Students in senior year, will have time to write essays, develop a resumé, and work on the documentation needed for their particular application process. .25 elective credit per semester

Interdisciplinary Studies

GRADE(S)	COURSE TITLE	DESCRIPTION
9/10	Public Speaking	Public Speaking is a course designed to build students' confidence and skills in speaking effectively in front of an audience. Through speeches, presentations, and interactive activities, students will learn how to organize their ideas, communicate clearly, and engage listeners with purpose and poise. In today's rapidly evolving world of technology and AI, the ability to express ideas thoughtfully and communicate with others is more important than ever. This course supports students in developing their voice, overcoming fear, and becoming confident, impactful communicators.
9/10	Honors Medicine & Health Seminar	This seminar-style course explores key topics in public health through discussion, inquiry, and collaborative learning. Students will examine issues such as disease prevention, health equity, global health systems, and the social determinants of health. A key component of the course will focus on bioethics, where students will engage in discussions about competing ethical values and dilemmas that arise in public health decision-making. The course emphasizes student-led discussions, case studies, and critical analysis of current public health challenges. Participants will engage with diverse perspectives, evaluate real-world data, and connect theory to practice. By the end of the seminar, students will develop a deeper understanding of how public health decisions impact communities locally and globally, as well as the ethical considerations that shape those decisions.

Technology

GRADE(S)	COURSE TITLE	DESCRIPTION
9 /10/ 11/12	Applied Technology and Digital Systems	This course gives students a practical understanding of how modern technology works, from hardware and operating systems to networks and cloud-based tools. Students learn by building, troubleshooting, and managing real systems, preparing them to confidently use and fix technology in everyday life and future careers. .25 tech credit per semester
9/10/ 11/12	Introduction to Cybersecurity	Students explore how to protect data, systems, and personal information in a digital world. Through hands-on labs and real-world scenarios, they learn about cyber threats, ethical hacking basics, and online safety, building awareness and practical skills for both personal and professional environments. .25 tech credit per semester
9 /10/ 11/12	Makerspace Challenges	This hands-on course will introduce you to the exciting tools and technologies available within the makerspace. You will learn how to use the equipment available at the lab through the completion of a series of engineering challenges. Based on a series of lessons and projects, you will develop skills in design thinking, prototyping, and problem-solving, while developing abilities that apply to Science, Technology, Engineering, Art, and Math. By the end of the course, you'll become proficient in the design process that will enable you to create, tinker, and invent independently. .25 tech credit per semester; limited to 12 students per semester
9/10/ 11/12	Introduction to 3D Design	This beginner course will introduce you to the principles of Digital Fabrication and guide you through the fundamentals of 3D design. You will learn to create 3D models from scratch, explore basic and advanced design techniques, and understand the workflow needed to prepare your designs for 3D printing. By the end of the course, you'll have the ability to transform your ideas into detailed 3D models, ready for fabrication or further development. We'll be using Fusion 360, a powerful and easy-to-use 3D design tool. .25 tech credit per semester

Technology

GRADE(S)	COURSE TITLE	DESCRIPTION
10	Biotechnology (required course for AP Biology students)	This elective gives AP Biology students the opportunity to deepen their understanding of biotechnology while gaining valuable experience with modern research tools and scientific analysis. Students will explore cutting-edge topics like genetic engineering, bioinformatics, and environmental modeling through hands-on virtual labs and case studies. Using digital tools for data modeling and analysis, they'll interpret real biological datasets and simulate ecological systems. Students will develop scientific communication skills and complete a portfolio of research-driven work that supports and extends their AP Biology learning. .25 tech credit per semester

