



HIGH SCHOOL

Learning Framework

Mission



Mission Statement

ACS empowers students to solve problems with creativity and integrity, to lead well-balanced lives, and to serve Lebanon and the world community with understanding and compassion.



Identity Statement

ACS is an accredited, not-for-profit, independent and secular American College Preparatory School serving a multi-cultural international student body. ACS provides internationally-enriched, standard-based curricula, preparing students for the International Baccalaureate, the Lebanese Baccalaureate, and the American College Preparatory Diplomas.



Beliefs - We Believe:

- Students learn at different rates and in different ways.
- Students achieve success by being active participants in their learning.
- Students develop character through engagement with others from different backgrounds and through interaction within the community.



Objectives - We Achieve Our Mission By:

- Setting high expectations for ourselves and our students.
- Empowering students to be critical thinkers and independent learners.
- Working collaboratively with all members of our community.
- Understanding and utilizing innovative teaching and learning.
- Creating a safe environment for students to take risks and learn from their mistakes.

- Facilitating students' intellectual, social, emotional, and physical growth.
- Engaging students in relevant and reflective learning.
- Encouraging students to explore different forms of personal expression.
- Providing opportunities for students to make choices, to lead, and to demonstrate responsibility.
- Supporting students to be caring, empathetic, respectful, and tolerant.
- Developing student awareness and communication skills through the study of languages.
- Involving students in local and international community service projects.
- Preparing students to seek admission to the most selective colleges and universities.



Diversity, Equity, and Inclusion

ACS Beirut is a diverse community of students and adults who share different cultural values and perspectives. Community-wide diversity offers learning opportunities for our students as well as opportunities to build relationships across cultures, nationalities, socioeconomic classes, and other aspects of identity.

ACS is committed to creating an equitable and inclusive environment and fostering a community of diverse perspectives to prepare our students for a global society. Faculty members work to ensure a safe and open-minded environment where understanding is central to all, where students' differences are respected and appreciated as an integral part of the educational experience, and where every ACS student feels included, cared for, and valued.

Core Values



In High School, we regard the school **Core Values** as pillars that support an engaged and dynamic classroom experience; as bridges that transport students to new areas of growth; and as a compass that guides. For example, we view **RESPECT, RESPONSIBILITY, INTEGRITY,** and **COMPASSION** as the four pillars that support a positive learning environment and ensure that the classroom is a safe and fair place where students can learn and express themselves. We see **OPEN-MINDEDNESS** as the key to unlocking the imagination and providing a bridge to students' accessing their **CREATIVITY**. Finally, we promote **ADVOCACY** and encourage students to speak on behalf of themselves and their needs and to advocate

for those around them who may be in need. The compass, pointed to its true north position, should guide the thoughts, words, and actions of students as they represent themselves in our community.

We strive to communicate our values through the artwork that lines the walls of our hallways and in the messaging we send through daily communications and at large-group gatherings such as assemblies. We believe that endeavors outside of the classroom such as our trip to SWINGS at the start of the year, our mid-year ski excursion, and our end-of-year Week Without Walls trips provide excellent opportunities to give students a lived sense of ACS values.

Philosophy

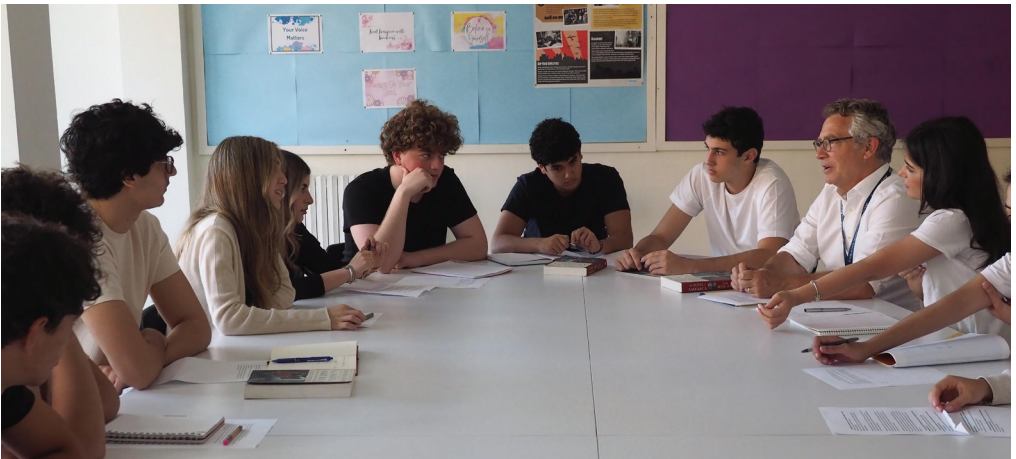
The high school faculty at ACS aspires to cultivate in all students the desire to learn, the capacity to learn, and a commitment to continue learning throughout their lives. We strive to nurture in students the habit of thinking independently, critically, and with an open mind.

All aspects of the ACS high school curriculum - the Advisory program, community service programs, academic coursework, after school athletics and activities, monthly full-school assemblies, and all of the services we provide - are designed with the aim of preparing students for a bright future, both in the next chapter of their lives and throughout their adulthood. We empower students to be resilient so that they are ready to meet the challenges that await them. We emphasize continued practice and positive responses to setbacks as the best ways to achieve long-term success.

The ACS high school faculty works as a community to create a supportive learning environment. We provide students with the space and the opportunity to grow

emotionally, socially, intellectually, and with a healthy sense of their identity. We encourage self-improvement and the optimism and self-confidence that result from taking levelheaded, judicious risks in a safe place, among friends and caring adults. We stress also that each community member must be responsible for giving back to the larger group, for doing their part to make ACS an inclusive environment. It is our goal that students will always honor their obligation to make positive contributions to the communities to which they belong. We teach students that they can truly reach their own potential only if they are helping others to do the same.

Our ultimate aim, then, is to develop individual character, as exemplified by the traits enumerated in the ACS Core Values, and to graduate students committed to living in accord with the ACS Mission. To achieve this goal, we establish a partnership among faculty, students, and parents that over time grows into a bond that far outlives the student's time on campus.



Academic Program / Subject Areas

High school study is divided into two tiers: Grade 9 & 10 studies, which introduce students to the rigors and rewards of high school coursework; and Grade 11 & 12 studies, when students choose from one of three curriculum pathways (International Baccalaureate, Lebanese Baccalaureate, American Diploma), depending on their career ambitions, the region of the world where they'd most like to study, and the university programs best-aligned with their dreams and goals. During the first two years of high school, we emphasize the development of foundational skills in literacy, mathematics, and science, and we strive to build community through off-campus experiential learning opportunities.

In Grades 11 and 12, students chart a more focused course toward university, choosing the curriculum pathway and the courses within that pathway that best prepare them for success at the next level of their education. We encourage students to follow their passions and to choose the courses and join the clubs and activities that further develop those interests and provide the internal motivation to continue developing skills and capacities. This student-centered

approach creates self-awareness, develops virtues that help students grow into strong community members, and allows them to reach their full potential.

Throughout high school our pedagogical approach emphasizes the development of foundational skills through daily practice and encourages students to direct their own learning and to construct knowledge through direct engagement with real-world problems. We develop students into good team members with collaborative problems and we nurture self-confidence by giving students opportunities to share the findings of their research by giving presentations to their classmates. Our teachers instill the student capacity for critical thinking by challenging original assumptions and offering prompt, level-headed feedback that returns students to their work feeling encouraged to deepen their explorations and take their projects in new directions. Taken together, coursework in the arts, the humanities, and the sciences, along with participation in co-curricular activities, develop our students into enthusiastic seekers, reflective thinkers, and good citizens.

Math

Grade 9 & 10 Words and Numbers

Course Overview

Words and Numbers is an ungraded, supplemental course that meets three times per week. The course is split into two unequal parts: English Composition and Math Recitation. The Numbers section of the course, which is called Math Recitation, comprises two-thirds of the course meeting time and meets twice per week. The Words section of the course, which is called English

Composition, comprises one-third of the course meeting time. This class meets once per week. Course descriptions for Math Recitation and English Composition can be found in the Math Department and English Department sections, respectively.

Grade 9 & 10 Math Recitation

Course Overview

Math Recitation is a supplemental math course established to provide support for student work in their Math 9 and Math

10 courses. The course is a skill-based, enhancement course intended to deepen understanding of mathematical concepts under review in Math 9 and Math 10. Class meetings give students an opportunity to work on additional problem sets and to have any questions about current work answered by their instructors and by peers as well. The course meets twice per week. No grades are awarded for the course, and there is no additional homework assigned. Grade 9 & 10 Math Recitation exists under the umbrella of a Grade 9 & 10 ungraded, supplemental course called Words & Numbers.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

No new material is introduced in Math Recitation. Class work runs in parallel to student work under review in Math 9 and Math 10.

Grade 9 Math - Algebra I & Geometry

Course Overview

The Algebra I and Geometry course integrates topics commonly included in algebra and geometry courses that follow the Common Core Standards. Topics and objectives have been determined to ensure that prerequisites for all three of the IB Mathematics courses and for the American Diploma Program courses will be met. The activities incorporated in the Grade 9 math course will help students develop skills in algebra and geometry including visualization of 3D shapes and spaces, analytical and critical reasoning, and systematic and step-by-step problem-solving.

Prerequisites

Successful completion of Grade 8 Mathematics at ACS Beirut.

Major Units of Study

- Linear Equations and Models
- Equations and Inequalities
- Systems of Equations and Inequalities
- Coordinate Geometry
- Exponents and Radicals
- Polynomials
- Geometry Topics

Grade 9 LB Math

Course Overview

The Grade 9 LB Math course concludes the mathematics of the Middle School cycle in the Lebanese Program. The course follows the program set by the Ministry of Education and prepares students for the official Brevet exam at the end of the Grade 9 academic year and for high school mathematics. Students will examine a mix of algebra and geometry topics with a special emphasis on formal mathematical writing and deductive proof. The areas of study in this course and the classroom activities will help students develop analytical skills, as they will learn different approaches to solving algebraic and geometric problems and will be given the agency to choose the approach that suits their individual skill set. Students will be given opportunities to explain their reasoning and to refine their approach to problems. The course fosters connection across the different mathematical topics, and enhances students' communication skills.

Prerequisites

Successful completion of Grade 8 LB Math.

Major Units of Study

- Fundamentals in Euclidean Geometry
- Lines and Circles

- Real Numbers
- Proportions
- Lines in a Coordinate System
- Systems of Linear Equations
- Analytic Geometry and Proof
- Thales Theorem
- Right Triangle Trigonometry
- Similar Triangles
- Polynomials
- Statistics

Grade 10 Math - Algebra II

Course Overview

The Grade 10 Algebra II course is designed for students who have successfully completed Algebra I & Geometry at ACS or Algebra I at another institution. The course builds on the algebraic and geometric skills learned in Algebra I & Geometry and explores more advanced topics in Algebra. The topics of study are selected to prepare students to succeed in precalculus courses and to perform well on standardized tests. The course aims at emphasizing problem solving skills and reasoning abilities as a tool to expand mathematical knowledge. Students work extensively with the concept of functions as they continue to expand their abilities to model real life situations and to solve equations using varied types of functions. Students will continue to learn how to use the graphing calculator TI-84 to aid in their understanding of the concepts.

Prerequisites

Successful completion of Algebra I and Geometry.

Major Units of Study

- Principles of Functions

- Quadratic Equations and Functions
- Polynomials
- Exponents and Logarithms
- Trigonometry
- Rational Expressions and Equations

Grade 10 LB Math

Course Overview

The Grade 10 LB Math course is intended to inaugurate the mathematics of the high school cycle in the Lebanese national program. It follows the curriculum set by the Ministry of Education, and it builds for the study of further topics in preparation for the Bacc II exams, at the completion of the high school cycle. Students will be exposed to a mix of advanced traditional algebra topics, to the geometry of vectors and lines, and to an introductory unit on functions and calculus. The activities incorporated in this course will help students develop algebraic, analytical, critical reasoning, problem-solving, and it enables them to establish the connection between algebra within the different mathematical topics, and communication skills.

Prerequisites

Successful completion of Grade 9 LB Math.

Major Units of Study

- Powers and Radicals of Real Numbers
- Equations and Inequalities
- Polynomials
- Trigonometry
- Vectors and Applications
- Functions and Calculus

Grade 11 & 12 IB AI SL

Course Overview

This course emphasizes the applied nature of mathematics, and also the interpretation of results in problem contexts. The topics selected for this course are treated with minimal abstraction and extensive application. Students will enjoy the mathematics they use to describe our world and to solve practical problems. They will also develop interest in deploying the power of technology, alongside exploring mathematical models of authentic real life situations, such as growth and decay of human, animal, and plant populations, and in understanding trends, all in order to make good judgments and accurate predictions about future behaviors. The audience of this course are students who will pursue college majors where mathematics serves them as a modeling tool, such as social sciences, natural sciences, medicine, labs, arts, statistics, business, psychology, design, and others.

Prerequisites

Algebra II

Major Units of Study

- Sequences and Series
- Number Representations, Algebraic Methods, Financial Mathematics
- Function Concepts
- Linear, Quadratic, Exponential, Direct / Inverse Variation, Cubic, & Trigonometric Models
- Principles of Data Collection, Descriptive Statistics
- Inferential Statistics (correlation, regression, chi-squared tests)
- Probability Distributions (discrete, normal, binomial)
- Correlation and Regression

- Hypothesis Testing
- Probability
- Differential Calculus
- Integral Calculus

Grade 11 & 12 Math IB AA SL

Course Overview

The IB Math Analysis and Approaches SL course emphasizes calculus at both abstract and applied levels, as well as algebraic, graphical, and numerical approaches. This course includes topics that are both traditionally part of a pre-university mathematics course, as well as topics that are amenable to investigation, conjecture and proof. Students will enjoy developing their mathematical knowledge to become fluent in mathematical communication, the construction of mathematical arguments, and in the development of strong skills in mathematical thinking. They will be fascinated by the exploration of real and abstract applications of these ideas, with and without the use of technology. The course targets students who plan to pursue college majors with a reasonable amount of mathematics content, such as computer science, physical sciences, economics, architecture, and psychology.

Prerequisites

Algebra II

Major Units of Study

- Sequences and Series
- Number and Algebra (Logarithmic and Exponential Functions, Binomial theorem, Proofs)
- Functions and Equations
- Geometry and Trigonometry

- Calculus (Differentiation)
- Calculus (Integration)
- Statistics and Probability

Grade 11 & 12 Math IB AA HL

Course Overview

The IB Math Analysis and Approaches HL course emphasizes calculus at both abstract and applied levels, as well as algebraic, graphical, and numerical approaches. This course includes topics that are both traditionally part of a pre-university mathematics course, as well as topics that are amenable to investigation, conjecture and proof. At the HL, proof by induction will be included. Students will enjoy developing their mathematical knowledge to become fluent in mathematical communication, the construction of mathematical arguments, and in the development of strong skills in mathematical thinking. They will be fascinated by the exploration of real and abstract applications of these ideas, with and without the use of technology. The Math AAHL course is aimed at students who have strong algebraic skills, enjoy the recognition of patterns, and understand the mathematical generalization of these patterns. They are the students who enjoy spending time with problems and get pleasure and satisfaction from solving challenging problems. The course targets students who plan to pursue college majors with substantial mathematics content such as mathematics itself, engineering, physical sciences, astronomy, architecture, technology, or economics for example.

Prerequisites

Algebra II

Major Units of Study

- Numbers and Algebra (Sequences and

Series, Logarithmic and Exponential Functions, Binomial Theorem, Counting Principles, Proofs)

- Functions and Equations
- Geometry and Trigonometry
- Complex Numbers
- Differential Calculus
- Integral Calculus 1
- Integral Calculus 2
- Statistics
- Probability and Probability Distributions
- Vectors, Lines, and Planes

Grade 11 ADP Math

Course Overview

This math course is designed for incoming G11 students who are interested in developing and strengthening their mathematical skills. The course covers a range of fundamental mathematical concepts, including algebra, geometry, trigonometry, and functions, with a focus on building a solid foundation for further math studies. Throughout the course, students will engage in hands-on activities, problem-solving tasks, and group work that will help them understand the practical applications of mathematical concepts. The course is designed to be accessible to students with varying levels of math proficiency, and the instructors will provide support and guidance to help students succeed. By the end of the course, students will have a strong understanding of basic mathematical concepts, and they will be well-prepared for more advanced math courses and topics. The course also aims to cultivate students appreciate the role of math in everyday life.

Prerequisites

Algebra II

Major Units of Study

- Sequences and Series
- Number Representations, Algebraic Methods, Financial Mathematics
- Principles of Functions
- Linear, Quadratic, Exponential, and Logarithmic Models
- Principles of Data Collection, Descriptive Statistics
- Modeling with Functions
- Trigonometry Measurements

Grade 11 LB Math

Course Overview

Grade 11 LB Math is intended to build upon previous algebra and geometry concepts from Grade 10 LB Math, while also preparing students for Grade 12 LB Math. The course aims to deepen students' mathematical understanding of the concepts underlying precalculus and at reinforcing student proficiency in algebraic manipulations and problem solving. The course also aims at increasing student ability to make connections and to apply mathematical concepts at a higher level.

Prerequisites

Grade 10 LB Math

Major Units of Study

- Equations and Inequalities of Degree Two
- Sequences and Series
- Circles
- Vectors
- Trigonometry
- Calculus: Limits of Functions, Asymptotes, Continuity, Derivatives, & Antiderivatives

- Polynomials, Rational, and Irrational Functions
- 3D Geometry

Grade 12 ADP Math

Course Overview

This course is designed to develop mathematical concepts and skills through the study of contemporary mathematical topics and methods, and their application into the real world. It is intended for students who need a challenging math course but whose post-high school level does not require a focus on calculus and science-related fields. The aim of this course is to strengthen the students' mathematical skills taught in previous courses and to improve their mathematical knowledge. Students will develop an understanding of essential mathematical concepts and skills that can be used to solve a variety of real-world mathematical problems in the field of statistics, business, and economics.

Prerequisites

Algebra 2 and/or teacher recommendation.

Major Units of Study

- Algebra Review
- Descriptive Statistics
- Probability
- Financial Math
- Elementary Calculus

Grade 12 LB Math

Course Overview

This course is intended primarily for students in the Life Sciences section. It follows the program set by the Lebanese Ministry of Education and it prepares students for the

official Baccalaureate exam, as well as for university level mathematics. Students build on previous mathematical concepts from Math LB11 and explore thorough analysis of natural exponential and logarithmic functions and curve-sketching. The course also covers topics in 3D geometry, complex numbers, and probability. The course material helps students think abstractly and reason logically. It also helps students enhance their problem-solving abilities and perform better in other scientific subjects.

Prerequisites

Grade 11 LB Math

Major Units of Study

- Functions, Inverse Functions, Continuous Functions on an Interval, Derivatives, Integration Methods, and Application of Integral Calculus
- Exponential Functions and Logarithmic Functions
- Complex Numbers
- Vectors and 3-D Geometry
- Lines and Planes in 3D
- Probability: Combinations, Conditional Probability, and Random Variables

English

Grade 9 & 10 English Composition

Course Overview

English Composition is a supplemental writing course that gives students an opportunity to work on aspects of their writing including developing a voice, arranging arguments, providing evidence, acquiring a sense of style, and gaining capacity with grammar, mechanics, and usage. The course meets once per week, is ungraded, and gives no additional homework. All written work is done in class with pen and paper. The purpose of the course is to give students an opportunity to gain proficiency and confidence in a learning environment that focuses on exploring new ideas and finding engaging, persuasive ways to express oneself. Grade 9 & 10 English Composition exists under the umbrella of a Grade 9 & 10 ungraded supplemental course called Words & Numbers.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

Rather than units of study, English Composition will focus on the following modes of writing:

- Personal Memoir
- Argumentative Writing
- Journalistic Reporting
- Responses to Short Readings

Grade 9 English

Course Overview

The Grade 9 English Language Arts course is designed to allow students to explore a broad range of literary genres and learn about the writer's craft through writing,

experimentation, and emulation of mentor texts. Students will be provided with many opportunities to develop their confidence as creative, versatile writers, and analysts. Ongoing writers notebooks, used both in and out of class, will enhance learning and provide a safe space to develop as readers, writers, and thinkers. The course aims to foster a love of reading and writing that will lead to a meaningful interaction with texts, while building vocabulary and conceptual skills that will prepare them for in-depth analytical study. We will study a variety of text types, including visual texts, film, fiction, drama and poetry. Through this course, students will understand the universality, durability and accessibility of both literary and non-literary texts.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- The Short Story
- The Novel
- The Graphic Novel
- The House on Mango Street
- Poetry

Grade 10 English

Course Overview

G10 English offers students the opportunity to explore various literary genres while developing their writing abilities. Throughout the course, students will learn how to approach different genres, critically analyze literary works, and apply their knowledge through expressive and persuasive writing assignments. From classic novels to

contemporary poetry, students will gain a comprehensive understanding of the characteristics, themes, and techniques employed in each genre.

The course will rely on interactive discussions, close readings, and interactive group assignments. Students will learn to approach literature with a critical eye. They will uncover hidden meanings, examine the author's intentions, and dissect the literary devices employed within the texts. In addition to literary analysis, this course places a strong emphasis on written expression and oral performance. Students will engage in a variety of exercises, ranging from personal reflections to analytical essays and creative compositions, as well as drama performances. Assessment will be conducted through a combination of written portfolio assignments, presentations, and group projects.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- The Short Story
- The Play
- The Novel
- Non-Fiction

Grade 11 & 12 IB Language & Literature

Course Overview

The IB English Language and Literature course offers students a comprehensive exploration of language's impact on meaning and communication. Throughout the course, students will study a variety of literary and non-literary texts, analyzing how stylistic and structural devices shape the delivery of the message. Emphasis is placed on developing critical thinking and writing skills through close reading of these texts. In addition to

textual analysis, students will be encouraged to work independently on research projects, honing their research and presentation skills. Dedicated attention will also be given to preparing for the Paper 1 and Paper 2 external examinations.

In Year 1 of the program, students engage in close reading to familiarize themselves with the conventions and affordances of different text types and genres. They will gain an appreciation for the formal and stylistic qualities of the texts, while also gaining insights into the perspectives of individuals from diverse cultures. This foundational year prepares students for the internal and external assessments required by the program.

Continuing into Year 2, students delve deeper into a wide range of literary and non-literary works from various periods, styles, and genres. Building upon the tools acquired in Year 1, students focus on textual analysis, examining how the structure and style of a particular work contribute to the construction of meaning. Throughout the program, students will develop a keen appreciation for the power of language and the ways in which it shapes our understanding of the world. By engaging with diverse texts and sharpening their critical thinking and writing abilities, students will be well-prepared for the academic challenges and opportunities that lie ahead.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Intertextuality
- The Graphic Novel
- The Novel
- The Play
- The Individual Oral

- Essays and Essayists
- Non-Literary Body of Work
- Paper1 and Paper 2 Writer's Workshop

Grade 11 ADP English

Course Overview

Grade 11 English in the American Diploma Program is designed to foster students' critical thinking and analytical skills by exploring a myriad of literary contexts. This course builds upon the knowledge acquired in previous years and aims to equip students with the necessary skills for successful communication and literary appreciation. Throughout the academic year, students will encounter a diverse range of literary works, spanning various genres and cultures, allowing for a comprehensive understanding of literature. The course emphasizes the importance of close reading, textual analysis, and the identification of thematic connections across different pieces of literature. Students will deepen their comprehension of literary elements such as plot, character development, symbolism, and figurative language. Moreover, the course will place a strong emphasis on developing advanced writing abilities, including crafting persuasive essays, and engaging in literary analysis.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Transcendentalism
- Anti-Transcendentalism (or Dark Romanticism)
- The Definition & Pursuit of the American Dream
- The Harlem Renaissance

Grade 12 ADP English

Course Overview

You binge watch it often, but have you ever examined the television you watch? Our class will study television as a vital literary text. In this college preparatory course, students will apply their literary analysis skill set to critically analyze televisual texts. Students will learn cinematic and televisual language, analyze TV form, and dissect key theories in film and television studies. Students will be shown episodes from a variety of TV series, and they will read accompanying academic articles for each screening. Students will then apply their knowledge and skills through a whole class critical examination of a short television series or mini series. Moreover, we will learn about the Film & Television industry, especially as it transitions from broadcast to streaming services and how the industry is shifting to new technologies and audiences.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Television Fundamentals
- Television History
- Television as a Medium
- Television & Cultural Theories
- Television Industries
- Focus: Classwide Case Study

Science

Grade 9 Integrated Science

Course Overview

This course serves as an introductory course to High School Sciences at ACS. The class will engage students in the study of three areas of science: life sciences, physical sciences, and environmental sciences. This course allows students to develop an understanding of concepts related to biology, chemistry, and physics, and gives students opportunities to relate science to technology, society, and the environment. Students will develop and hone their STEM skills through scientific research, scientific experimentation, and engineering design processes to explore concepts and further their knowledge in situations that are important in their everyday lives. Students will build a toolkit of skills that will allow them to take advanced courses and become scientifically literate citizens. The course promotes the basic science practices needed for students who continue to study in the sciences. Lab experiments, infographic projects, and computer simulations are used to demonstrate the concepts learned.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Biology (Sustainable Ecosystems)
- Biology (Introduction to Cells and DNA)
- Chemistry (Atoms, Elements, and Compounds)
- Physics (The Characteristics of Electricity)
- Physics (Exploring Motion and Forces)

Grade 9 & 10 Introduction to Biology

Course Overview

This course is designed to serve as an introductory course in Biology. It engages students in the study of life and living organisms, and examines biology and biochemistry in the real world. There are three life science Disciplinary Core Ideas which will be covered over the course: From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits. Students will develop a deep understanding of how transformations and energy flow occurs in organisms and ecosystems. They will also investigate, explain and model how heritable traits and disorders are related to the structure and function of proteins. Moreover, students will explore and develop models to explain the complex relationships in ecosystems that determine population sizes. The course promotes the basic science practices needed in higher courses of biology. Lab experiments, infographic projects, computer simulations are used to demonstrate the concepts learned.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Energy and Matter
- Genetics
- Diseases
- Ecosystems

Grade 9 LB Biology

Course Overview

The LB9 Biology course is offered to students in the “Brevet” Lebanese program. It introduces the basic science concepts about body systems and genetics. Students will develop a deep understanding about the principles of nutrition and health, the processes of digestion, respiration, circulation. They will be able to explain how those three body systems work together to transform food into nutrients, and transport nutrients and oxygen to the cells to make energy. In addition, students will be introduced to the basics of genetics needed in higher biology courses. This course uses different approaches including lots of analyses and interpretations that are based on scientific reasoning. Lab sessions, videos, computer simulations, and projects are used to reinforce the concepts acquired.

Prerequisites

This course has no prerequisites.

Major Units of Study

Unit 1: Nutrition and Metabolism

- Transformation of food into nutrients: Digestion
- From nutrients to energy: Respiration
- Transport and distribution of nutrients and oxygen gas to organs: Heart and Blood Circulation

Unit 2: Genetics

- Chromosomes, carriers of genetic information
- Mitosis, conformed reproduction of genetic information
- Sexual reproduction and genetic diversity

Grade 9 LB Chemistry

Course Overview

The LB9 Chemistry course is an introductory course at grade 9 level. It provides to students fundamental chemical principles which are necessary for understanding the composition and properties of matter and the changes it undergoes. Students will develop an understanding of the structure of the atom, and explain how electron arrangements in atoms predict their chemical properties and their behavior in chemical bonding. They will also explore electrochemistry and organic chemistry and the real life applications of those fields. The course emphasizes a lot of problem-solving, logical reasoning and critical thinking skills. Lab sessions, videos, computer simulations, and projects are used to reinforce the concepts acquired.

Prerequisites

This course has no prerequisites.

Major Units of Study

- The Atom
- Chemical Bonding
- Electrochemistry
- Organic Chemistry
- Aliphatic Hydrocarbons

Grade 9 LB Physics

Course Overview

This course is an introductory course in physics intended to prepare students who are in the Lebanese Baccalaureate track for the governmental Brevet exam. The course introduces the basic concepts in electricity and mechanics. The students develop an understanding of physics and its applications in real life examples. This course emphasizes problem-solving and critical thinking skills.

Prerequisites

This course has no prerequisites.

Major Units of Study

Electricity

- DC Voltage
- AC Voltage
- Resistors
- Electric Power and Energy

Mechanics

- Mechanical Action
- Equilibrium of a Body
- Pressure

Grade 10 & 11 Introduction to Chemistry

Course Overview

Grade 10 chemistry is a year-long course that aims to provide the students with a basic understanding of the chemistry principles at work in the world around them. It allows them to study the composition of matter and to observe and interpret chemical reactions in the laboratory. It also serves as a foundation for the chemistry course in the 11th and 12th grade, especially for those hoping to pursue a major in science. The units covered are principles of chemistry, chemical bonding and reactions, chemical quantities and organic chemistry. This course integrates problem-solving, laboratory experiments, and research projects allowing to develop the students' analytical and inquiry skills.

Prerequisites

Integrated Science or Introduction to Biology

Major Units of Study

- Scientific Measurements
- Matter and Change
- Atomic Structure

- Electrons in Atoms
- Periodicity
- Ionic and Covalent Compounds
- Chemical Reactions
- Chemical Quantities
- Stoichiometry
- Aqueous Solutions
- Organic Chemistry

Grade 10 & 11 Introduction to Physics

Course Overview

This is an introductory course in Physics that is a prerequisite to IB Physics. In this course, students are introduced to basic concepts in mechanics in which they learn about motion in one dimension and apply the equations of motion with constant acceleration. The students identify the different types of forces and apply Newton's laws to real life situations as well as learn about energy, specifically mechanical energy. Additionally, waves behavior and characteristics are introduced and the students get to learn about electromagnetic waves and their applications. The course also includes an introduction on electricity and its applications in everyday life. The course emphasizes problem solving strategies and skills and includes a practical work component where students develop their manipulative skills and perform hands-on investigations to assist in their learning.

Prerequisites

Integrated Science or Introduction to Biology

Major Units of Study

Waves

- Properties of Waves
- The Electromagnetic Spectrum
- Light and Sound

Mechanics

- Motion Along a Straight Line
- Forces
- Work and Energy

Electricity

- Electric Charge
- Main Electricity
- Energy and Voltage in Circuits

Grade 11 & 12 IB Sports Exercise and Health Sciences

Course Overview

Sports, Exercise, and Health Sciences course (SEHS) is primarily concerned with the scientific study of human physiology, biomechanics and psychology. Scientists working in these fields attempt to make sense of human physical and mental health and performance through a variety of approaches and techniques, controlled experimentation, and collaboration with other researchers. DP SEHS enables students to engage constructively with topical scientific issues. Students examine scientific knowledge claims in a real-world context, fostering interest and curiosity. By exploring the subject, they develop understandings, skills and techniques that can be applied across their studies and beyond. The course is organized under three main themes: exercise physiology and nutrition of the human body; biomechanics; sports psychology and motor learning. These themes are distinct, but also share many overlapping features; studying the similarities and connections between them is a central component of the course. Integral to the student experience of the DP SEHS course is the learning that takes place through scientific inquiry, both in the classroom and in field work or the laboratory

Prerequisites

Integrated Science or Introduction to Biology

Major Units of Study

- Exercise physiology and nutrition of the human body
- Biomechanics
- Sports psychology and motor learning

Grade 11 & 12 IB Biology

Course Overview

Biologists investigate the living world at all levels using many different approaches and techniques. At one end of the scale are the cell, its molecular construction, and complex metabolic reactions. At the other end of the scale, biologists investigate the interactions that make the whole ecosystem function. That is why the IB Diploma Programme Biology course is structured around four themes: Unity and Diversity, Form and Function, Interaction and interdependence, and Continuity and Change which are organized into four levels: molecules, cells, organisms, and ecosystems. The aim of the syllabus is to integrate concepts, topic content, and the nature of science through inquiry and concept-based teaching and learning. Throughout the course, students become aware of how scientists work and communicate with each other. Furthermore, practical work is an integral part of the course. Students enjoy multiple opportunities for scientific study and creative inquiry within a global context.

Prerequisites

Introduction to Biology

Major Units of Study

- Molecules
- Cells

- Organisms
- Ecosystems

Grade 11 & 12 IB Physics

Course Overview

IB Physics is a rigorous course that allows students to develop a solid foundation in experimental skills, problem solving skills and knowledge in Physics. The aim of the syllabus is to integrate concepts, topic content, and the nature of science through inquiry and concept-based teaching and learning. Throughout the course, students become aware of how scientists work and communicate with each other. The course is structured around five themes: A. Space, Time and Motion, B. The Particulate Nature of Matter, C. Wave Behavior, D. Fields, and E. Nuclear and Quantum Physics. The listed topics include core material studied by both SL and HL students as well as additional higher level material for HL students.

The study of physics requires a strong foundation in mathematics. Therefore, it is required that students joining IB Physics have demonstrated proficiency in their math studies. Students seeking to pursue Physics HL must be enrolled in either Math IB AA SL or HL.

Prerequisites

Introduction to Physics

Major Units of Study

- Space, Time & Motion
- The Particulate Nature of Matter
- Wave Behavior
- Fields of Energy (Gravitation, Electric, Magnetic)
- Nuclear and Quantum Physics

Grade 11 & 12 ADP Environmental Systems

Course Overview

The ADP Environmental Systems course seeks to integrate the student's knowledge of the biological, physical, and social sciences through the investigation of environmental interactions between the systems of the earth and the human systems. They investigate the sources, hazards, effects, and potential remedies of both natural and man-made environmental problems using field trips, environmental case studies, laboratory practices, and projects. The introduction to environmental science gives students the opportunity to use their scientific knowledge in practical settings and learn more about how people relate to their surroundings. They build an understanding of concepts such as sustainability, biodiversity, and the negative impact of human actions on the environment. This course might help high school students decide if this is the correct career route for them, since there has been an increase in jobs requiring environmental studies over the past few decades.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Foundations of Environmental Systems and Societies
- Ecosystems and Ecology
- Biodiversity and Conservation
- Water, Food Production Systems, and Society
- Soil Systems and Society
- Atmospheric Systems and Society
- Climate Change and Energy Production
- Human Systems and Resource Use

Grade 11 ADP Computer Science Discoveries

Course Overview

This course is an introduction to computer science. Mapped to CSTA standards, the course takes a wide lens on computer science by covering topics such as problem solving, programming, physical computing, user-centered design and data, artificial intelligence, and machine learning, while inspiring students as they build their own websites, apps, games, and physical computing devices.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- The Nature of Problem Solving - How do humans and computers solve problems?
- Web Development
- Animation & Games
- Solution Design - Identify a problem and build an app to solve that problem
- Data & Society
- Relationship Between Hardware and Software

Grade 12 ADP Computer Science Principles

Course Overview

Designed for high school students, CS Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. CS Principles complements CS Discoveries with a deeper focus on concepts such as how the internet works and the societal impacts of computer science.

Prerequisites

Computer Science Discoveries

Major Units of Study

- Digital Information: Learn how computers represent complex information like numbers, text, images, and sound, and explore the social impacts of digitizing information.
- The Internet: Understand how the Internet connects devices and people, build Internet protocols, and evaluate its impacts on modern life.
- Intro to App Design: Gain basic programming and app design skills focusing on debugging, pair programming, and user testing, and create a project to teach classmates.
- Variables, Conditionals, and Functions: Explore programming concepts like variables, conditionals, and functions through collaborative activities, and build a decision maker app.
- Lists, Loops, and Traversals: Learn about lists, loops, and traversals for building apps that handle large amounts of data, and complete a hackathon project.
- Algorithms: Discover how algorithms solve problems and analyze their efficiency in modern computing through hands-on activities.
- Parameters, Return, and Libraries: Introduce parameters, return, and libraries to build new apps and share code with classmates, and design a library of functions.
- Create PT Prep: Prepare for the “Create Performance Task” section with helpful documents and activities to understand the task and develop a plan.
- Data: Learn data analysis for turning raw data into useful information, analyze datasets, and present findings.

- Cybersecurity and Global Impacts: Explore the impacts of computing innovations, understand data threats, and propose improvements in a “school of the future” conference.
- AI and Machine Learning: Study how computers learn from data to make decisions, develop projects around real-world data, and design an app to solve a relevant problem.

Grade 11 LB Biology

Course Overview

This course is offered to science-oriented students. It intends to introduce students to the structure and function of DNA, how the body generates energy from nutrients, and the importance of a balanced diet. Students will also be introduced to the unit of neurobiology as an introduction to grade 12. The course favors discovery and reasoning through observing graphs, performing experiments, and analyzing documents. Lab sessions, computer-simulated experiments, and software programs reinforce the concepts learned and students are expected to write lab reports.

Prerequisites

Grade 9 LB Biology

Major Units of Study

- DNA, Cell Cycle, and Karyotype
- Protein Synthesis and Enzymatic Activity
- Energy Expenditure
- Energetic Metabolism in Humans
- Basics of a Balanced Diet and Nutritional Diseases
- Neurobiology

Grade 11 LB Chemistry

Course Overview

The LB 11 Chemistry course is offered at grade 11 level for students pursuing the Lebanese track. It provides to students specific chemical principles that show how chemistry is intimately involved in many aspects of our lives. It develops the learners’ intellectual and scientific skills and is a prerequisite for the course taken in the Life Sciences section in grade 12. The course covers basic chemistry concepts. The topics taught are the following: Chemical Reactions & Stoichiometry, Aqueous Solutions, Acids & Bases, Electrochemistry and Organic Chemistry I (Elemental Analysis, Alkanes). Practical experiments complement the lessons and emphasize quantitative techniques, manipulative skills, and social skills.

Prerequisites

G10 Physical Science

Major Units of Study

- Chemical Reactions and Stoichiometry
- Aqueous Solutions
- Acids & Bases
- Electrochemistry
- Organic Chemistry

Grade 11 LB Physics

Course Overview

This course is the third in the series of physics courses designed for the Scientific Lebanese Track program. It is intended to introduce and reinforce major Physics concepts in mechanics including the motion of a particle in a plane, Newton’s second law of motion as well as rotational dynamics and work and energy. The students reflect on real life applications of

sound waves, capacitors and the applications of the magnetic field created by an electric current. This course aims to develop problem-solving abilities, promote critical thinking, and emphasize the experimental aspect of science by including a laboratory component whereby students perform hands-on investigations to assist in their learning.

Prerequisites

Grade 9 LB Physics

Major Units of Study

- Motion of a Particle in a Plane
- Newton's Second law of Motion and its Applications
- Rotational Dynamics
- Work and Energy
- Capacitors
- Magnetic Fields Created by Electric Currents

Grade 12 LB Biology

Course Overview

This is a higher-level biology course that introduces the students to the important anatomical and physiological aspects of genetics and animal physiology including immunology, neurophysiology, and endocrinology. This course helps students not only build up knowledge in different fields of animal physiology but also apply acquired knowledge to similar situations, relate acquired knowledge to new given, real-life applications, and solve problems by practicing scientific reasoning. The course favors discovery and reasoning through observing graphs and analyzing documents. Videos and animations are used to reinforce the concepts learned.

Prerequisites

Grade 11 LB Biology

Major Units of Study

- Sexual Reproduction and Female Sexual Hormones
- Genetic Transmission in Humans and Variation
- Immunology
- Neurobiology

Grade 12 LB Chemistry

Course Overview

The LB 12 Chemistry course is offered to students pursuing the Life Sciences Lebanese Track. It is a general course allowing students to graduate from high school with a comprehensive and thorough understanding of the basic concepts in chemistry and the role it plays in many aspects of our lives. With a strong emphasis put on problem-solving skills, the course will prepare the students for the acquisition of practical and investigational skills in Chemical Kinetics, Chemical Equilibrium, Acids & Bases, and Organic Chemistry.

Prerequisites

LB 11 Chemistry

Major Units of Study

- Chemical Kinetics
- Chemical Equilibrium
- Organic Chemistry
- Acid-Base Reactions in Aqueous Solutions
 - The pH Scale

Grade 12 LB Physics

Course Overview

This course is a college preparatory course that prepares students in the Life Science track for the official Baccalaureate II exam in Physics. It is an intensive mathematical-based course that covers a wide range of physics concepts in the topics of Mechanics, Electricity, Aspects of light, Atomic, and Nuclear physics. Students in this course enhance their critical thinking skills, and problem solving skills.

Prerequisites

LB 11 Physics

Major Units of Study

- Mechanics
- Electricity
- Optics
- Nuclear

Social Studies

G9 World History

Course Overview

This course is intended to familiarize students with the historical, political, social, and economic aspects of the world from the beginning of the modern world to the contemporary era (1850s - early 2000s). Ninth graders will study the changes in the second half of the eighteenth century while developing the skills necessary to analyze and interpret primary sources, whether photos, images, or documents, and to use them to explain the events and perspectives during that time. Students will develop an understanding of the narratives and concepts that shaped the modern world, as well as major events and people who affected the trajectory of the modern world. Students will also study modern case study examples of these past units, this would allow students to see parallels of the past and understand the current world through these patterns.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Imperialism
- Nationalism
- WWI and Conflict Resolution
- Authoritarianism
- Super Powers

Grade 9 LB Social Studies

Course Overview

This course consists of three subjects that are Geography, Civics, and History under the name of Social Studies Lebanese program, and it is taught in the Arabic Language. Each

one has its unique goals and academic targets and requirements to sit for G9 official exams.

Major Units of Study - History

- WW1 (1914-1918) causes and results
- Lebanon during WW1 (1914- 1920)
- Lebanon from 1920 till 1926 (implementation of the mandate system and founding Greater Lebanon)
- Lebanon 1926-1939 (foundation of the republic and events till the start of WW2)
- Lebanon during WW2 and the era of independence 1929-1945

Major Units of Study - Civics

- Social and Legal Values
- Civil Responsibility
- Public Administration (Role and Importance)
- The Relationship between Education and Professions
- Arab League (Foundation and Role)
- United Nations (Foundation and Role)

Major Units of Study - Geography

- Lebanon - Location, Demographics, & Economic Structure
- The Arab World - Location, Demographics, & Economic Structure

G10 Middle East History

Course Overview

This course is structured to encourage students to become more independent as learners and to think like a historian. This course will be about the history of the Middle East, we would begin with the end of the Ottoman Empire and WWI, and will end at the post Cold War world. This course is more student-based where the students will look at

primary sources often and analyze its origin, purpose, and content as well as its values and limitations. Students will then use that analysis to defend a claim. Students will also learn how to write like a historian by using the primary sources, and other knowledge to interpret historical events. This course will often look at the intricacies of politics in and about the Middle East, as well as the economic and social spheres that prevailed in this region throughout the scope of this course.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Nationalism and WWI
- Mandate Era
- Palestine and the Mandate
- Sovereignty
- Current Events

Grade 11 & 12 IB Economics

Course Overview

Economics allows students to develop an understanding of the complexities and interdependence of economic activities in a rapidly changing world. At the heart of economic theory is the problem of scarcity. Owing to scarcity, choices have to be made. The economics course, at both SL and HL, uses economic theories, models and key concepts (scarcity, choice, efficiency, equity, economic well-being, sustainability, change, interdependence and intervention) to examine the ways in which these choices are made: at the level of producers and consumers in individual markets (microeconomics); at the level of the government and the national economy (macroeconomics); and at an international level, where countries

are becoming increasingly interdependent (the global economy). It also allows students to explore these models, theories and key concepts, and apply them, using empirical data, through the examination of six real-world issues.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Introduction to Economics
- Microeconomics
- Macroeconomics
- The Global Economy
- International Economics

Grade 11 & 12 IB Psychology

Course Overview

This course is an introduction to the three different approaches to understanding human behavior: the biological, cognitive and sociocultural approaches. In grade 11, students will first learn about research in psychology, including research methods and ethical considerations adopted by researchers. Students will apply their knowledge of research in their internal assessment. After building a foundation in research, students will explore the biological and cognitive approaches to understanding human behavior through psychological experiments and case studies.

During the second year, students will complete the core (sociocultural approach) in which they will learn a lot about the social and cultural aspects of human behavior, including how people enculturate into their own cultures, how people behave in social contexts, and how culture can have an effect on a person's cognition and behavior. Next, students will

move to the options: abnormal psychology for SL and both abnormal psychology and human relationships for HL. Abnormal psychology explores the prevalence, causes and treatments for MDD and human relationships explores how relationships are formed, maintained, and ended.

Prerequisites

Successful completion of Grade 9 & 10 Social Studies.

Major Units of Study

- Research in Psychology
- Biological Approach to Understanding Behavior
- Cognitive Approach to Understanding Behavior
- Sociocultural Approach to Understanding Behavior
- Abnormal Psychology
- Human Relationships (HL only)

Grade 11 & 12 IB Global Politics

Course Overview

The DP Global Politics course is designed for students seeking a deeper understanding of the functioning and dynamics of the world they inhabit, including what drives change or hinders it. Drawing from various disciplinary traditions within politics, international relations, social sciences, and humanities, the course aims to enrich students' knowledge and comprehension of political activities and processes at local, national, international, and global levels. This is achieved through critical engagement with contemporary political issues and challenges.

Throughout the course, students critically explore concepts such as power, sovereignty, legitimacy, and interdependence. They delve

into various topics within global politics, encompassing political systems, actors, power dynamics, frameworks, treaties, conventions, terminology, and analysis models. Additionally, the course utilizes contemporary real-world examples and cases to provide diverse contexts that shape and inform students' inquiries.

A primary focus of the course is on developing students' thinking, analysis, and research skills. This is accomplished through guided and independent inquiries into political issues and challenges. Special emphasis is placed on encouraging students to identify and engage with diverse perspectives, fostering a comprehensive understanding of global political dynamics.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Understanding power and global politics
- Rights and justice
- Development and sustainability
- Peace and conflict

Grade 11 & 12 IB Theory of Knowledge

Course Overview

The Theory of Knowledge course is one of the components of the IBDP core and is pivotal to the educational philosophy of the DP. It invites students to reflect on the nature of knowledge and how we have come to know what we “claim” to know. Otherwise an abstract concept, we coach students into recognizing how they are acquiring and producing knowledge everyday by reflecting on real-life scenarios and notions that have close relevance to their lives and to their courses. Also, by exposing students to the

most central question of the course “how do we know?”, we compel them to come face to face with concepts such as evidence to ponder what really counts as good evidence, how we judge which is the best model or explanation for an idea, and what could a particular theory mean for learners in the real world. Through discussion of these and other questions, students gain greater awareness of the gaps in their knowledge, such as their overreliance on assumptions, intuition, and biases (rather than empirical proofs or facts). They also come to develop a greater appreciation for the diversity and richness of knowledge and perspectives, making peace with the fact that diverging worldviews and answers may exist - all being equally valid and deserving.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Introduction to the Course (first year)
- Knowledge and the Knower (core course theme) (first year)
- Knowledge and Politics (first year)
- Knowledge and Technology (first year)
- The Area of Knowledge of the Human Sciences (first year)
- The Area of Knowledge of the Natural Sciences (second year)
- The Area of Knowledge of History (second year)
- The Area of Knowledge of Mathematics (second year)
- The Area of Knowledge of the Arts (second year)

Grade 11 & 12 ADP Introduction to Business

Course Overview

The Introduction to Business course is a comprehensive course designed to introduce students to business principles and practices. The curriculum covers a wide range of topics, including business organization and environment, human resource management, finance, marketing, and operations management. Students engage in real-world case studies, projects, and examinations, allowing them to apply theoretical knowledge to practical situations. Emphasis is placed on developing a holistic view of business, ethical considerations, and the impact of business decisions on society and the environment.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Business Organization and Environment
- Human Resource Management
- Business Accounts and Finance
- Marketing
- Operations Management
- Business Strategy

Grade 11 & 12 ADP Psychology

Course Overview

This course is an introductory course that will provide the students with a general overview of what psychology is, its history and its various fields, which include social psychology, personality psychology, health psychology; as well as concepts like memory, emotion and motivation. Students will also get the chance to learn about many psychological disorders: their prevalence rates, causes

and treatment options. The students will be evaluated through multiple choice questions (MCQs) and short answer questions.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Introduction to psychology
- Social psychology
- Personality psychology
- Memory
- Psychological disorders

Grade 11 & 12 ADP US History

Course Overview

This course will provide a broadly chronological survey of United States history, beginning with the indigenous inhabitants through the present day. Students will examine settlement patterns, continental expansion, immigration, and economic growth to better understand why the country evolved as it did politically and governmentally. We will also study the emergence of the United States as a global economic and military power and analyze its impact on the world community. In addition to a core US history text, we will examine primary documents and read articles by various notable historians whose interpretations of topics in US history have evolved and changed over time. The class will be taught in the seminar style, and students must be prepared for each class and are expected to participate actively in discussions and conversations. Most assessments will be written: in-class essays, take-home essays, document analyses, and reading quizzes. Class participation will also be an important component of a student's grade.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- From Dependence to Independence
- More than a Confederation: The Writing and Ratification of the Constitution
- Western Expansion and the Rise of Sectional Conflict
- Civil War and Its Aftermath
- Emergence as an Economic and Military Power
- The Cold War at Home and Abroad
- The Battle for Civil Rights and Gender Equality
- The Rural/Urban Divide

Grade 12 LB Philosophy and Civilization

Course Overview

The Grade 12 Philosophy and Civilization course is a requirement for the official program of the Baccalaureate in the Life Science track. The program deals with philosophical questions concerning psychology and knowledge.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Humans
- Scientific Knowledge

Arabic

Grade 9 Arabic HL

Course Overview

This course aims at advancing the students' proficiency level in the four language skills: reading, writing, listening and speaking. In this course, students are introduced to literature and engage in literary analysis activities. By the end of this course, students will be able to write in styles and genres appropriate to the task and audience.

Prerequisites

7 years of study in Arabic.

Major Units of Study

- Food & Leisure
- Customs and Traditions of Religious Holidays
- Traveling and the Arab World

Grade 9 LB Arabic

Course Overview

This course aims to enhance the students' different language skills: reading, writing, listening, and speaking. It also aims at broadening students' perceptions and their general cognitive and cultural horizons, through exposure to various literary texts that connect students to their reality and enable them to interact with their surroundings. By the end of this course, students will be able to write in styles and genres appropriate to the task and audience, and to sit for the official Lebanese certificate exams.

Prerequisites

8 years of study in Arabic.

Major Units of Study

- The Narrative Style: Story, Biography & Fairy Tales
- The Letter and Allegorical Style

Grade 9 & 10 Arabic as a Foreign Language (AFL)

Course Overview

The main emphasis of this course is to develop the students' ability to complete performance tasks orally and in writing. Students in this course will learn more vocabulary, grammar and simple language structures and will begin to develop an ability to read and produce simple written tasks independently. This course is designed for students who had two years of studying Arabic in Middle School and one year in High School.

Prerequisites

4 years of study in Arabic.

Major Units of Study

- Identity (Women and Refugees)
- Children's Rights
- Technology

Grade 10 Arabic SL

Course Overview

This course is designed for students who have studied Arabic for 3-4 years. Oral communication continues to be the emphasis of this course. Students will participate in authentic oral tasks. In writing, students will produce written tasks for various purposes and audiences. This course is a prerequisite to the IB B Standard Level course.

Prerequisites

5 years of study in Arabic.

Major Units of Study

- Identity (Women, Refugees & Teenagers)
- Children Rights
- Technology

Grade 10 Arabic HL**Course Overview**

This course focuses on literary analysis and criticism. Students in this course read modern Arabic literary works and respond to them orally or in writing. By the end of this course, students will be able to produce written and oral work where they compare literary texts, analyze a piece of literature and/or critique it.

Prerequisites

5 years of study in Arabic.

Major Units of Study

- Literature and Expression of Political Issues
- The Effect of Arab Spring on Arab Countries
- Literature and Expression of Immigration in Lebanon

Grades 11 & 12 IB Arabic B SL**Course Overview**

This two-year course is a language acquisition course designed for students with an intermediate Arabic proficiency level. The SL course is a 2-year course designed for students with previous knowledge of the language. The objective is the development of language skills through the study of written and spoken material and the awareness of the culture of Arab-speaking countries.

Prerequisites

6 years of study of Arabic.

Major Units of Study

- Identity
- Human Ingenuity
- Experiences
- Social Organization
- Sharing the Planet

Grades 11 & 12 IB Arabic B HL**Course Overview**

The Arabic HL course is a 2-year course designed for students with previous knowledge of the language. The objective is the development of language skills through the study of written and spoken material and the awareness of the culture and literature of Arab-speaking countries.

Prerequisites

6 years of study in Arabic.

Major Units of Study

- Social Organization
- Experiences
- Human Ingenuity
- Identities
- Sharing the Planet

French

Grade 9 French Beginner

Course Overview

This course is designed for students who have no prior exposure to French and are not adapting to the rhythm of the initial French class they have been separated from. In this class, students will get introduced to the language with lessons and practices that are more adapted to their skills. The main emphasis of this course is to help students discover the French language and be capable of understanding the day to day basics all while communicating their ideas in all three modes: interpersonal, interpretive, and presentational.

Major Units of Study

- My Family and I
- Food and Beverages
- Describing People and the World Around Us

Grade 9 French SL

Course Overview

This course is designed for students who have studied French and acquired a proficiency level of Novice High. The main emphasis of this course is to develop the students' ability to complete performance tasks in three modes of communication: Interpersonal, Interpretive and Presentational. Students in this course will learn vocabulary, grammar and simple language structures and will begin to develop an ability to read and produce simple written tasks independently.

Major Units of Study

- Greetings and Interactions
- Conducting Surveys

- Searching for a Job
- Strikes in a City
- Traveling
- New Job

Grade 9 French HL

Course Overview

This course is designed to be followed over 1 year by students with previous experience of the language. Through listening, speaking, reading and writing activities, students learn to interact in a range of everyday situations. They will develop their ability to complete performance tasks in three modes of communication: Interpersonal, Interpretive and Presentational. The course also presents insights into the culture of French-speaking populations.

Major Units of Study

- Societies
- At Work
- Between Us

Grade 10 French Beginner

Course Overview

This course is designed for students who have no, or very few, prior exposure to French. The course introduces the students to the French language and culture, through various situations of daily life. The main emphasis of this course is on communication in three modes: interpersonal, interpretive and presentational. Basic vocabulary and grammar, as well as simple writing structures are introduced.

Major Units of Study

- My Daily Life
- Here and There
- The Past

French Grade 10 SL

Course Overview

This course is designed for students who have studied French and acquired a proficiency level of Novice High. The main emphasis of this course is to develop the students' ability to complete performance tasks in three modes of communication: Interpersonal, Interpretive and Presentational. Students in this course will learn vocabulary, grammar and simple language structures and will begin to develop an ability to read and produce simple written tasks independently.

Major Units of Study

- Me and My Daily Life
- Internships and Proving Oneself
- Working in a New Environment

French Grade 10 HL

Course Overview

This course is designed to be followed over 1 year by students with previous experience of the language. Through listening, speaking, reading and writing activities, students learn to interact in a range of everyday situations. The course also presents insights into the culture of French-speaking populations. Students will participate in authentic oral tasks. In writing, students will produce written tasks for various purposes and audiences. This course is a prerequisite for the IB HL Level course.

Major Units of Study

- What About Traveling?
- Our Planet
- Well-Being

Grade 11 & 12 French IB Ab Initio

Course Overview

This two-year course is designed for students with little or no language experience. Through listening, speaking, reading, and writing, students learn to interact in various everyday situations. The course also provides insight into the culture of the French-speaking population.

Major Units of Study

- Identities
- Experiences
- Human Ingenuity
- Social Organization
- Sharing the Planet

Grade 11 & 12 French IB SL

Course Overview

The two-years SL course is designed for students with previous knowledge of the language. The objective is the development of language skills through the study of different genres of authentic written and spoken material and the awareness of the culture of French-speaking countries.

Major Units of Study

- Identities
- Experiences
- Human Ingenuity
- Social Relationships
- Sharing the Planet

Grade 11 & 12 French HL

Course Overview

This two-years HL course is designed for students with previous knowledge of the language. The objective is the development of language skills through the study of written and spoken material and the awareness of the culture and literature of French-speaking countries.

Major Units of Study

- Identities
- Experiences
- Human Ingenuity
- Social Organization
- Sharing the Planet

Fine & Performing Arts

Grade 9 & 10 Band

Course Overview

The HS Band program explores a wide range of music from classical to pop and everything in between! Students learn the fundamentals of instrumental technique and they also have a chance to compose and learn to improvise. The aim is for students to enjoy being part of an ensemble, playing great music and how you can express yourself creatively through a musical instrument. There will be opportunities to play live publicly in performances and other organized events.

Prerequisites

Beginner level of chosen instrument.

Major Units of Study

- Music Literacy
- Brass, Woodwind and Percussion Instruments
- Ensembles
- Performance

Grade 9 & 10 Drama I

Course Overview

Students will explore the theater process through working in pairs to create duologues, theater in performance and theater in the world throughout history. Improvisation, devising, Commedia Dell'Arte, and creative scene work are used to introduce students to acting and character development. Drama I provides opportunities for students to develop skills in critical listening and thinking, as well as stage presence and ensemble work culminating in periodic classroom and/or public performances.

Major Units of Study

- Improvisation
- Commedia Dell'Arte
- Augusto Boal and Theatre of the Oppressed
- Duologing and Pair-Work

Grade 10 Drama II

Course Overview

This course is designed for students who have completed Drama I and promotes opportunities to build on existing skills. The course allows students the opportunity to engage in specific styles of theatre from across the world, looking at how different cultures and theatrical practices affect our performance. Creative dramatics, creative writing and scene work are used to help students challenge and strengthen their acting skills. Drama II provides opportunities for students to strengthen skills in critical listening and thinking, as well as stage presence and ensemble work culminating in periodic classroom and/or public performances.

Prerequisites

Drama I

Major Units of Study

- Realism and Realistic Acting
- Epic & Political Theatre
- Theatre of Cruelty & Theatrical Absurdism
- Berkoff & Noh - Physical Theatre
- Text Exploration and Performance

Grade 9 & 10 Ceramics 1

Course Overview

The course is designed to introduce students to the exciting world of clay and ceramics, creating functional and decorative objects using various techniques. Throughout the course, students will learn about the properties of clay, handbuilding techniques, glazing and firing. Students will gain a deeper understanding and appreciation for contemporary ceramics artists and pottery throughout history.

Major Units of Study

- Handbuilding Techniques
- Glazing and Firing
- Functional and Decorative Objects
- History of Ceramics through Contemporary Times

Grade 10-12 Ceramics 2

Course Overview

In the Ceramics 2 course, students will explore a variety of techniques and skills in the realm of ceramics. They will learn hand-building techniques, delve into wheelwork, develop skills in throwing clay on a pottery wheel, and craft beautiful and functional pieces.

Moreover, the course will delve into the art of mosaic and tile making. Students will learn the intricacies of creating designs using small pieces of colored glass, ceramic, or stone, and then applying them to surfaces like walls, floors, or three-dimensional objects. This process enhances creativity and attention to detail as students bring their unique mosaic and tile creations to life. Whether interested in functional pottery or decorative art, this ceramic course provides students with a robust foundation in various techniques, allowing them to express their artistic vision effectively.

Prerequisites

Ceramics 1

Major Units of Study

Unit 1: Hand Building Techniques

Unit 2: Wheel Work

Unit 3: Mosaic and Murals

Unit 4: Sculptural Objects

Grade 9 & 10 2D Visual Art

Course Overview

The course is designed as a one year program with emphasis on contemporary and traditional processes, concepts, and materials. Students will explore the world of 2D art through painting, drawing, printmaking, and mixed media techniques. Through hands-on projects and assignments, students will learn the fundamentals of each medium and develop their artistic skills. Additionally, you will develop an understanding about art through the study of artists and art movements throughout history to gain a broader perspective on the world of art.

Major Units of Study

- Mixed Media
- Printmaking
- Painting
- Collage
- Textiles

Grade 9 & 10 3D Art

Course Overview

The course is designed as a one year program with emphasis on contemporary and traditional processes, concepts, and materials. Coursework includes exploring a variety of mediums such as wire, paper mache, plaster, found objects and ceramics.

Through hands-on projects students will learn technical skills and how to apply the elements and principles of design in the artmaking process. Additionally, you will develop an understanding about art through the study and analysis of artists and art movements throughout history to gain a broader perspective on the world of art.

Major Units of Study

- Wire Figures
- Ceramics
- Paper Mache
- Assemblage

Grade 10-12 Public Art

Course Overview

This course is all about empowering students to create unique and meaningful artworks that reflect and enhance their surroundings around the school and community. Students will have the chance to work both collaboratively in groups and independently, honing their technical, critical, and analytical skills through exploring a range of exciting 2D and 3D mediums, from graffiti to mosaics, photography, murals and upcycling. By the end of this course, students will have gained valuable experience in creating site-specific works of art that serve the community. It's an excellent opportunity to develop projects that make a positive impact.

Major Units of Study

- Stencil Art: Art as Activism
- 3D Sculptures: Color Movement and Abstraction
- Paper and Scissors: Redefining Spaces
- Murals: Painting Techniques, Campus Beautification

Grade 9 & 10 Digital Photography 1

Course Overview

This is an introductory digital photography class in which students will learn fundamental photography skills and concepts. This course is structured around a series of assignments that gradually build students' working knowledge of the technical capabilities and shooting functions of digital SLR cameras. Students use Nikon cameras supplied by the school but take full responsibility for the camera while they are using it. The course will cover an introduction to the elements and principles of design, rules of composition, technical terminology, and basic photo editing skills on Adobe Photoshop. There is also a research component based on the history and styles of photography.

Major Units of Study

- Fundamentals of Photography
- Points of View
- Fun with Manual Mode
- Creative Licenses

Grade 9 & 10 Computer Graphics

Course Overview

The course introduces students to the skills and work of graphic design. Students will explore Photoshop, Illustrator, and InDesign through themed projects. By the end of the course, students will have built an extensive portfolio of work based in these three programs. Students will focus on gaining competency with the technical tools and developing their artistic style through applying these skills through learning typography, layout and design, editing images, branding, poster and menu designs.

Major Units of Study

- Photoshop
- Illustrator
- Branding
- Indesign
- Design Projects

Grade 10 Yearbook

Course Overview

This course is to work on and produce the school's yearbook. The course includes learning design and layout programs using Photoshop, Illustrator, and InDesign. Students will create designs for the book spread based on a theme, and the layouts of the book with its related sections and pictures. Students will also learn the printing process and setting up files for print specifications. At the end of the year, the yearbook is printed and distributed throughout the ACS community.

Prerequisites

Computer Graphics or Photography

Major Units of Study

- Yearbook Themes
- Design Programs
- Design and Layout
- Final Production

Grade 11 and 12 IBDP Visual Arts

Course Overview

This course is a challenging and rewarding experience for those who can match the course demands with the effort and time required for success. The course requires a strong interest in the visual arts, a good base of artistic skills, an interest in research and art history, and good time management skills. Visual Arts is a course in exploring creative

processes and developing an invested and personal contemporary art/design practice. Students engage in critical investigation and artistic production through an independent framework of personal mentorship and independent learning. Throughout the course, students develop strong relational concepts, explore and experiment with a variety of media and disciplines, take creative risks, and document their art process through critique, reflection and evaluation.

Both SL and HL are offered.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Identity and Representation
- Transformation: Material Exploration, Building Conceptual Thinking
- Artists as Activists
- Towards the Exhibition
- Curating an Exhibition, Documenting through the Process Portfolio and Focus on Artists through the Comparative Study

Grade 11 & 12: IB Theatre

Course Overview

The course is designed to encourage students to examine theatre in its diversity of forms around the world. At the core of the course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement and imaginative synthesis—all of which can be achieved through the action of theatre (creating, directing, designing, and performance).

Theatre is about transformation. It is the application, through play, of existing theatrical styles and imagination to frame, reflect, expose, critique and speculate on what it is that makes us human; why we make the

choices we make and tell the stories we tell. By studying theatre, and engaging with it practically, students will discover how elusive, fascinating and varied theatre can be through the exploration of its theory, history, and culture, and will find expression through work shopping, devised work or scripted performance.

The course emphasizes the importance of working individually and as a member of an ensemble through development of the organizational and technical skills needed to express one's self creatively in theatre and support one another. A further challenge for students following this course is to become

aware of their own perspectives and biases and to learn to respect those of others.

Prerequisites

IB Theatre requires no previous experience in Drama or Theatre.

Major Units of Study

- Research Presentation (External Assessment)
- Collaborative Devised Theatre (External Assessment)
- Production Proposal (Internal Assessment)
- Solo Theatre Piece (External Assessment)

Physical Education

Level 1 PE for Grades 9 & 10

Course Overview

During this course, students will develop a well-rounded understanding of physical fitness and engage in activities that promote both physical and mental well-being. Through this course, students will learn how to plan and implement personalized fitness programs, as well as develop competency in two or more life activities. In addition to the physical aspects of fitness, the course also places emphasis on key concepts associated with successful participation in physical activity, such as responsible behavior and social interaction. Through modeling responsible behavior, students will learn how to engage in physical activities in a safe and respectful manner. Finally, the course aims to provide students with opportunities for self-expression, challenge, social interaction, and enjoyment. This helps students develop a positive relationship with physical activity and maintain a lifelong commitment to maintaining their overall health and well-being.

At the end of the course, students should be able to:

- Develop sport-specific techniques and fitness.
- Appreciate and be able to execute a sport-specific strategic play.
- Participate at a developmentally appropriate level.
- Share planning and administration of sports experiences.
- Provide responsible leadership.

Prerequisites

There are no prerequisites for this course.

Major Units of Study

- Soccer
- Volleyball
- Basketball
- Dance
- Fitness
- Softball
- Badminton
- Ultimate Frisbee / Floor Hockey

Level 2 PE for Grades 11 & 12

Course Overview

Throughout this course, students will acquire a comprehensive understanding of physical fitness and actively engage in activities that promote their physical and mental well-being. The course is designed to equip students with the knowledge and skills necessary to plan and implement personalized fitness programs, as well as develop proficiency in two or more life activities. In addition to focusing on the physical aspects of fitness, this course places a strong emphasis on key concepts associated with successful participation in physical activity, including responsible behavior and social interaction. By modeling responsible behavior, students will learn how to engage in physical activities in a safe and respectful manner. Ultimately, the goal of this course is to provide students with ample opportunities for self-expression, challenge, social interaction, and enjoyment. By doing so, students will develop a positive relationship with physical activity and be better equipped to maintain a

lifelong commitment to their overall health and well-being.

At the end of the course, students should be able to:

- Develop sport-specific techniques and fitness.
- Appreciate and be able to execute a sport-specific strategic play.
- Participate at a developmentally appropriate level.
- Share planning and administration of sports experiences.
- Provide responsible leadership.

Prerequisites

There are no prerequisites for this course.

Major Units of Study


- Soccer
- Volleyball
- Basketball
- Dance
- Fitness
- Softball
- Badminton
- Ultimate Frisbee / Floor Hockey



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