



High School Program of Studies

2022-2023 School Year



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High School Program of Studies

Dear High School Students and Parents,

Welcome to Al Ittihad National Private School – Abu Dhabi (INPS-AD). This 2022-2023 High School Program of Studies designed for students and parents to develop understanding of the courses offered at the INPS-AD in grades 9 through 12. We encourage students to use this as a guide towards understanding the overall INPS-AD High School program.

Vision

“A generation of heritage guardians and global thinkers”

Mission

We at “INPS-AD” are committed to the intellectual and personal development of our students by providing programs that inspire and empower them to become active national and global citizens.

Curriculum

The curriculum at Al Ittihad National Private School comprises a required program of studies that prepare students for college entrance. Electives are designed to allow students the flexibility to nurture their abilities and interests. The school academic year consists of two semesters, approximately 16 weeks in each. Graduation requirements are based on the number of successful units of Credit earned in grade 9 through grade 12. As students move into Grades 9-12, the INPS-AD offers them courses that will help them stream-line their academic choices to support their university course of study and career options.

Grade Level Placement

The following terms are used for each class:

Grade 9	Freshman
Grade 10	Sophomore
Grade 11	Junior
Grade 12	Senior

Credit Hours

Credits are the units by which academic progress is measured. A minimum of Twenty- Eight Credits are required for graduation from INPS- AD. Credit will be given only for courses taken while students are enrolled at ninth through twelfth grade. Below is the comparison between the Credit hour in INPS-AD and California State Credit hours. The school strongly encourage students to go beyond the minimum requirements of the Credits. Accordingly, the following Credits have been created by the school.

Subjects	INPS-AD Credits	California State Credits	Comments
Islamic	2		Mandatory for Muslim students. <i>These Credits replace a combination of Credits from the elective courses</i>
Arabic	4		Mandatory for Arab Nationals. <i>These Credits replace a combination of Credits from the world language components.</i>
English	4	4	
World Language	--	2	<i>These Credits replaced by Arabic Language</i>
Mathematics	4	3	
Science	4	3	
Social Science	3	2	
Physical Education	2	2	
Creative Art	1	1	
Elective Courses	5	7.5	

The difference between INPS-AD & California State Credits

Course Change

The schedule is created after students' choices and interests. Accordingly, courses change is highly discouraged after course selections. One week change period is applicable to any new classes after starting the academic year. Student-initiated requests for course changes take place within the first week of the scheduled course. Attendance in the students' original class is required until the change has been confirmed by the school administration. Consultation with the student must occur before allowing the student to change their schedule. Students are responsible to finish and complete any work missed in their new course.

The teacher may recommend that a student be changed to another course if the student does not meet the minimum course expectations.

Below the steps that need to be followed when requesting a course change after the initial one-week period:

1. Student obtains petition form from counselor for the course change.
2. Parents, current teacher, or receiving teacher recommends the change.
3. Counselor makes a recommendation.
4. A final decision will be made by the Guidance Committee, taking all recommendations into account.

The Guidance Committee consists of the (Director, Deputy Director, Academic Advisor, High School Principals and Guidance Counselor)

Pre-requisites

Prerequisites are required for some courses. Prerequisites are listed in course descriptions, and students should be aware of them when making course selections. Students are required to read the description of each course selected in order to avoid changing courses.

Attendance

Regular attendance and punctuality are emphasized at INPS-AD. Because performance in class through collaborative activities is an essential element of student learning and assessment, students must be present and absence must be minimized. To receive course Credit, students may not accumulate more than **6 unexcused classes per course per semester**. Students exceeding this absence limit will receive the grade on their final transcript but will not be granted Credit. **Four tardiness are equal to one unexcused absence.**

Course Repetition

Students receiving a 'E' or an 'F' grade in a course may be recommended to either repeat the course during the following school year or retake the course during the summer to prepare to take a placement test upon their return to school (subjected to ADEK's approval) in order to be promoted to the next level.

Grade Convention

Percentage Grade	Letter Grade	GPA	Percentage Grade	Letter Grade	GPA
97-100	A+	4	73-76	C	2
93-96	A	4	70-72	C-	1.7

90-92	A-	3.7	67-69	D+	1.3
87-89	B+	3.3	65-66	D	1
83-86	B	3	Below 65	D-	1
80-82	B-	2.7	Below 60	E/F	0
77-79	C+	2.3			

A+ = High Honor A= Honor

Educational Programs

Some course work is mandatory in Grades 9 - 12, such as Islamic, Arabic, Arabic Social Studies English, Math, Biology (Gr. 9) Art (Grade 9), Chemistry (Gr. 10), History (Gr. 10) Physics (Gr. 11&12), and Economics (Grades 11&12). Other courses are offered on option basis to give our students a strong background and foundation in liberal art, medical science, engineering, information technology as well as in business streams. At the end of Grade 8, students need to choose their preferences and commit to these choices for the next 4 academic years (Grades 9-12). A grace period of **one week** is given at the commencement of each academic year for students to adjust choices; however, after that grace period, changing options is not recommended nor supported.

Advanced Placement (AP) Courses

INPS- Khalifa City offers the Advanced Placement (AP) Program sponsored by the College Board in the United States. These AP courses are equivalent to first-year college courses and are intended for students who possess proven ability, interest and motivation to handle the extra workload and study requirements. The decision to take an AP course should not be taken lightly. Students considering AP courses should seek advice from parents, the course teacher and their counselor. Students enrolled in any AP classes are expected to complete the corresponding College Board external exam in May. These exams are scored on a 1-5 scale. Depending on the school, scores of 4 or 5 can result in a college or university awarding Credit, exemption from courses or advanced standing. Students should research individual colleges to understand their policies in rewarding AP Credit. Please note that there is a fee for each AP exam. By definition, AP courses are very demanding and require extensive homework and self-directed study. Therefore, a strong degree of motivation, organization and time management skills are critical. As a result, when calculating GPA, AP courses are weighted. Students receive 0.25 additional weight to their GPA. The following AP courses may be offered for the 2019-2020 school year pending enrollment numbers:

- Calculus AB
- Biology
- Chemistry
- Economics
- AP Physics and AP Physics C

Graduation Requirements

School Graduation & Equivalency Requirements for Graduates of the academic year 2022-2023 and onwards:

- Students must finish 12 years of schooling (Grades 1-12).
 - Students must successfully pass Grades 9, 10, 11 and 12.
 - The minimum passing grade for each subject is 60%.
 - Students must achieve a minimum overall average of 60% in Grade 12.
 - Students must complete the Credit hours required.
 - Students must pass the EmSAT Achieve test in Grade 12 pursuant to the relevant laws and regulatory decrees.
 - Community Service/ Internship a minimum of 30 hours
- Please find below the requirements for each Track:

General Track

Subjects	INPS-AD Credits	Comments
Islamic	2	<i>Mandatory for Muslim students</i>
Arabic	4	<i>Mandatory for all students</i>
MOE Social Studies	0.5	<i>Mandatory for all students</i>
English	4	
Mathematics	4	
Science	4	<i>Physics should be included</i>
Social Science	3	
Physical Education	2	
Moral Education	0	
Visual Arts	1	
Elective Courses	5	

Advanced Track

Subjects	INPS-AD Credits	Comments
Islamic	2	<i>Mandatory for Muslim students.</i>
Arabic	4	<i>Mandatory for all students.</i>
MOE Social Studies	0.5	<i>Mandatory for all students</i>
English	4	
Mathematics	4	<i>AP Calculus AB</i>
Science	4	<i>Physics – Calculus based AP Physics C or AP Biology or AP Chemistry</i>
Social Science	3	
Physical Education	2	
Moral Education	0	
Visual Arts	1	
Elective Courses	5	

Elite Track

Subjects	INPS-AD Credits	Comments
Islamic	2	<i>Mandatory for Muslim students.</i>
Arabic	4	<i>Mandatory for all students</i>
MOE Social Studies	0.5	<i>Mandatory for all students</i>
English	4	<i>* AP English</i>
Mathematics	4	<i>AP Calculus AB</i>
Science	4	<i>AP Physics C: Electricity and Magnetism AP Physics C: Mechanics</i>

		<i>and AP Biology or AP Chemistry</i>
Social Science	3	<i>*AP Economics</i>
Physical Education	2	
Moral Education	0	
Creative Art	1	
Elective Courses	5	

*Any other subject at AP level

Note: Advanced and Elite students only can apply to the science, medical and engineering fields

Scholarship Requirements by the UAE Government

- UAE National
- An average of 85% or more in grade 11 and a minimum of 90% in grade 12 Term one and final.
- IELTS minimum score of 6
- EmSAT minimum score for Mathematics 1000 and SAT 650
- EmSAT minimum score for English 1500 and 550

Standardized and International Exams

All high school students (those studying in grades 9, 10, 11 and 12) **must** take recognized standardized/Aptitude tests as appropriate to their needs and grade level. Choices must also be linked to university and national equivalency requirement.

Below is a list of all the tests associated with the US curriculum expectation (not all are compulsory)

Acronym	Description	Grade Level	Note
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SAT	Scholastic Assessment Test	11/12	Compulsory for students studying abroad
Advance Placement (AP)	Calculus, Physics, Chemistry, Biology, Economics	11/12	Compulsory for Advance and Elite tracks
IELTS	International English Language Testing System	11/12	Compulsory for students studying abroad
EmSAT- MOE	English, Math, Physics & Arabic	12	Compulsory
	Chemistry, Biology & ICT	12	Required by some Universities

Four Year Plan

Courses Offered 2022-2023

Subjects	Grade 9 Credits	Subjects	Grade Credits	Subjects	Grade 11 Credits	Subjects	Grade 12 Credits
Islamic 9	0.5	Islamic 10	0.5	Islamic 11	0.5	Islamic 12	0.5
Arabic 9	1	Arabic 10	1	Arabic 11	1	Arabic 12	1
English 9	1	English 10	1	English 11	1	English 12	1

Courses Description

English Department

Title: English 9

Length & Credit: 1 year / 1 Credit

Grade: 9

Prerequisite: None

English 9 broadens the students' literary experiences by introducing them to several classics and establishes a foundation for the advanced study of various genres. (focusing more on critical reading and on strategies that can enhance deeper understanding) .All skills will be incorporated and integrated in a way to ensure deep learning and empower students with the necessary skills to do well in external standardized tests.

Units will include short stories, poetry, fiction, plays, and non-fiction as well texts of different genres.

In addition to reading and analyzing texts, the course emphasizes the development of writing, research, speaking, listening, viewing, grammar, and vocabulary skills. Independent reading is required in addition to the regular course work.

Encouraging some competitions that can encourage creativity such as poetry café, public speaking day.

Title: English 10

Length & Credit: 1 year / 1 Credit

Grade: 10

Prerequisite: Completion of English 9

This course is intended to expose students to a variety of literature genres within the realm of American Literature. An integration of all the skills will enable students to widen their scope of knowledge, analysis, evaluation and creation. Reading skills are enhanced through model texts that focus on cognitive development and focus on the skills required get familiarized with the components of Standardized tests (SAT,IELTS Emsat). In addition to reading and analyzing texts, the course emphasizes the development of extended reading, writing, research, and communication.

Title: English 11

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: Completion of English 10

As students enter a pivotal year for EmSAT testing, this course focuses on the study of American literature revolving around current topics relevant to social, cultural, and political forces both regionally and globally. Topics of study may include education, political movements, ideological and cultural conflicts, and humans' relationship with nature. The texts will include a wide range of fiction and nonfiction in a variety of genres and media. In addition to the development of critical reading and analysis of texts, the course emphasizes writing, research, speaking, listening, viewing and developing grammar and vocabulary. There is also a major focus placed on the use of literary and rhetorical strategies in both writing and speaking. As students will have to prepare for the EmSAT, the course will focus on certain reading skills such as: identifying the main idea, simple factual details, finding the meaning of an unfamiliar word, inference (understanding what is implied), and sequencing (understanding the order of events) and cloze reading strategies.

- Conducting thorough research on a given topic
- Giving and receiving feedback on writing samples
- Writing clear narrative experiences (both fiction and non-fiction)
- Developing claims and counterclaims based on the audience

Our curriculum incorporates American literature from all genres. Students will demonstrate the ability to draw conclusions, compare texts, and identify key literary features that make each text unique.

Title: English 12

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: Completion of English 11

This course sheds light on to the study of literature from the standpoint of the development of the English language. Students will study fiction and non-fiction texts and media from a wide range of eras, genres and global regions in order to acquire an understanding of language as a purposeful, communicative medium. There is a major focus on the use of literary and rhetorical strategies in both written and spoken expression. In addition to the critical reading and analysis of texts, the course emphasizes writing, speaking, researching, listening, viewing and developing grammar and vocabulary in an integrated and contextualized setting where students are given the chance to get ready for standardized tests.

Title: [Writer's Lab](#)

Length & Credit: 1 Semester / 0.5 Credit

Grade: 9

Prerequisite: Open to all students. Compulsory for students with a low percentile score on the English MAP tests.

Writer's Lab is an elective course that focuses on improving students' writing skills. Students will have the opportunity to explore different types of writing to identify effective key writing traits, practice for a variety of purposes and audiences to develop a strong authentic voice. Writing activities give students the chance to learn how to organize and develop narrative, cause and effect, and compare and contrast compositions, literary reviews and research papers. The course is a necessary step to master the writing process. In addition, students study short stories, novels and poetry. Any student may select to take this course. Moreover, students will have the chance to learn how to write a research paper. However, **Students with a 20% percentile score or lower on the English MAP tests will be compulsorily registered in this course. Students with a score of 21%-25% percentile may be compulsorily registered in this course, depending on the recommendations from their current English teacher.**

Title: [Public Speaking](#)

Length & Credit: 1 semester /0.5 Credit

Grade: 9

Prerequisite: None

In order for students to be effective speakers, communication, verbal, nonverbal, and written must be consistent. Master of the skills used in public speaking will greatly enhance the chances of being understood. An effective presentation includes good content, organization, delivery, audience, and analysis. These are the tools that will be evaluated on during the course. In addition, the information students will learn will assist then in becoming a more critical consumer of information.

Title: Theater, Cinema and Film Production

Length & Credit: 1 semester/ 0.5 Credit

Grade: 10

Prerequisite: 80% or above average in English

Lights! Camera! Action! Theater and cinema are both forms of art that tell a story. In this course, students will explore the enchanting world of live theater and its fascinating relationship to the silver screen. Students will be introduced to the different genres of both and how to develop the script for stage and film. Students will then dive into how to bring the script to life with acting and directing. The products from this course will be used to create films in ICT classes. If you have a passion for the art of film and stage, this course will help bring your creativity to life!

Title: Journalism 1

Length & Credit: 1 semester / 0.5 Credit

Grade: 12

Prerequisite: A 80% and above average in English and /or completion of creative writing

This course equips students with the knowledge of the principles of Journalism. It also enables them to put these principles into practice through writing articles, editorials, magazine headlines and columns, and stories.

This course allows students to put news or stories into different narrative forms; therefore, students should exhibit strong writing, editing, researching, and organizational skills in order to enroll in this course. Students will also have to work on different designs and layouts to present their work.

Title: Journalism 2

Length & Credit: 1 semester / 0.5 Credit

Grade: 12

Prerequisite: completion of Journalism 1

If one wants to turn his/her writing, photography, and collaborative skills into an exciting and rewarding career, Journalism 2: Investigating the Truth is where to begin.

Students will Learn how to write a lead that grabs the readers, discover the roles of sources and how to interview them effectively, and explore the best options for researching a story in a digital world.

Students will also understand the role editors and producers play in the revision process, learn how to prepare posts for publication, and how to follow the publication process - from the flow of a work day to the layout of a newspaper or a news broadcast.

Math Department

Title: Math 9 (Pre-AP Geometry)

Length & Credit: 1 year / 1 Credit

Grade: 9

Prerequisite: None

The fundamental purpose of the Geometry course is to formalize and extend students' geometric experiences from the middle grades. This course includes standards from the conceptual categories of Geometry and Statistics and Probability. .

Title: Math 10 (Algebra II)

Length & Credit: 1 year / 1 Credit

Grade: 10

Prerequisite: Completion of Math 9

In the Algebra II course students extend their skills about functions to include logarithmic, polynomial, rational and radical functions. This course includes standards from the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and probability.

Title: Math -11 General (Pre - Calculus).

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: Completion of Math 10

In this course students integrate and apply the mathematics they have learned from their earlier courses. This course includes standards from the conceptual categories of Number and Quantity, Algebra and Functions. Students will then begin calculus concepts such as limits, derivatives, and integrals.

Title: Math 11 Advanced (Pre-Calculus)

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: Completion of Math 10, an average of 80% and above in Math 10 and a recommendation from the Math teacher. **Students who choose Advanced Math must choose Advanced Physics too.**

Pre-calculus course is designed to cover topics in Algebra ranging from polynomial, rational, and exponential functions to conic sections. Trigonometry concepts such as Law of Sines and Cosines will be introduced. Students will then begin analytic geometry and calculus concepts such as limits, derivatives, and integrals. This course promotes in-depth understanding of concepts and mathematical thinking necessary for AP Calculus.

Title: Math 12 - General (Calculus)

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: Completion of Math 11 General.

Calculus is presented with the same level of depth as an entry-level college and university calculus course. It includes limits, differentiation, and integration. In this course students integrate and apply the mathematics they have learned from their earlier courses.

Title: Math 12 Advanced - AP Calculus (AB)

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: Completion of Math 11 Advanced (Pre- AP calculus) and recommendations from the current Math teacher. **Students who choose Advanced Math must choose Advanced Physics too.**

AP Calculus AB is structured around three big ideas: limits, derivatives, and integrals and the Fundamental Theorem of Calculus. In this course the concept of limits is foundational; the understanding of this fundamental tool leads to the development of more advanced tools and concepts that prepare students to grasp the Fundamental Theorem of Calculus, a central idea of AP Calculus.

Science Department

Title: Pre- AP Biology

Length & Credit: 1 year / 1 Credit

Grade: 9

Prerequisite: None

Pre-AP Biology sparks student motivation and critical thinking about our living world as they engage in real-world data analysis and problem solving. The Pre-AP Biology course emphasizes the integration of content with science practices—powerful reasoning tools that support students in analyzing the natural world around them. Having this ability is one of the hallmarks of scientific literacy and is critical for numerous college and career endeavors in science and the social sciences. The Pre-AP science areas of focus are science practices that students develop and leverage as they engage with content. These areas of focus are vertically aligned to the science practices embedded in other science courses in high school, including AP, and in college, giving students multiple opportunities to strengthen and deepen their work with these skills throughout their educational career. They also support and align to the Next Generation Science Standards (NGSS) and AP science practices of theory building and refinement.

Pre-AP Biology Areas of Focus:

- **Emphasis on analytical reading and writing:** Students engage in analytical reading and writing to gain, retain, and apply scientific knowledge and to carry out scientific argumentation.

- **Strategic use of mathematics:** Students use mathematics strategically in order to understand and express the quantitative aspects of biology, to record and interpret experimental data, and to solve problems as they arise.
- **Attention to modeling:** Students go beyond labeling diagrams to creating, revising, and using models to explain key patterns, interactions, and relationships in biological systems.

The four big ideas that are central to deep and productive understanding in Pre-AP Biology are:

- The process of evolution drives the diversity and unity of life.
- Growth and reproduction in biological systems are dependent upon the cycling of matter and the transformation of energy.
- Biological systems, occurring at various scales, respond and adapt to stimuli in order to maintain dynamic homeostasis.
- Genetic mechanisms are essential to maintaining biological systems

Title: Pre-AP Chemistry

Length & Credit: 1 year / 1 Credit

Grade: 10

Prerequisite: None

This course focuses on students developing a deep conceptual understanding of matter and energy at the molecular level by asking students to explain their macroscopic observations using particulate-level reasoning. It emphasizes the integration of content with science practices—powerful reasoning tools that support students in analyzing the natural world around them. The course areas of focus are science practices that students develop and leverage as they engage with content. These areas of focus are vertically aligned to the science practices embedded in other science courses in high school, giving students multiple opportunities to strengthen and deepen their work with these skills throughout their educational career. They also support and align to the Next Generation Science Standards (NGSS) and AP science practices of theory building and refinement.

The big ideas that are addressed across units:

- **Structure and Properties:** All matter is composed of particles that are in constant motion and interact with one another. This movement and interaction is responsible for the observable properties of matter. Observed properties can be used to infer the number and type(s) of particle(s) in a sample of matter.
- **Energy:** Energy is transferred in all physical and chemical processes. During these processes, energy is either redistributed within the system or between systems.

- Transformations: At its heart, chemistry is about rearrangements of matter. These rearrangements, or transformations, involve the breaking and forming of intermolecular forces or chemical bonds. Macroscopic observations can be used to quantify and describe these rearrangements at the atomic scale.

Title: Advanced Biology

Length & Credit: 1 year / 1 Credit

Grade: 10

Prerequisite: An average of 80% in Biology 9 and a recommendation from the teacher

In this course students will investigate the structure and function of the human body. Topics covered will include the basic organization of the body, the major body systems along with the impact of diseases on certain systems. Students will engage in many topics and competencies related to truly understanding the structure and function of the human body. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: chemistry of life, cell structure and function cellular energetics, cell communication and cell cycle, and Heredity.

Demonstrations, lab activities, videos and dissections will be used to supplement classroom lecture and discussion. This course is designed for those students who have taken biology and who wish to further their study of biology.

Title: Advanced Physics (I)

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: This course requires an average of 80% and above in Math 10 and a recommendation from the Science and Math teachers. **Students who choose Advanced Physics must choose Advanced Math too.**

The course content is organized into seven commonly taught units, which have been arranged in the following suggested, logical sequence: Kinematics ,Newton’s Laws of Motion , Work, Energy, and Power ,Systems of Particles and Linear Momentum , Rotation , Oscillations and Gravitation .In addition, the following big ideas serve as the foundation of the course, enabling students to create meaningful connections among concepts and develop deeper conceptual understanding:

- Change: Interactions produce changes in motion.
- Force Interactions: Forces characterize interactions between objects or systems.
- Fields: Fields predict and describe interactions.
- Conservation: Conservation laws constrain interactions.

. Students engage by inquiry using the Science Practices to build, deepen, and apply their knowledge of core ideas and crosscutting concepts. Students will be challenged to apply their knowledge of the laws of physics to solve physics related critical thinking problems. Significant

instructional time will be devoted to hands-on work and investigations leading to project-based assessments.

Students who take Advanced Physics must take Advanced Math. Students who pursue a scientific and engineering stream in university must take Advanced Physics.

Title: Physics (I)

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: None

This foundational physics course will introduce students to basic concepts in measurement, motion, Newton's laws of motion, momentum, energy, work, and power. Students should be able to demonstrate an understanding of the physical environment and be able to apply the scientific principles to observations experienced.

Students will explore these topics using the Next Generation Science Standards which include Cross-cutting Science Concepts, Science and Engineering Practices as well as Physics Content Standards. Students engage by inquiry using the Science Practices to build, deepen, and apply their knowledge of core ideas and crosscutting concepts. Significant instructional time will be devoted to hands-on work and investigations leading to project based assessments.

Title: Advanced Chemistry I

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: An average of 80% or above in Chemistry 10 and a recommendation from the teacher

The purpose of this course is to introduce students to chemical equations and reactions including: describing, balancing, classifying, and writing net ionic equations. The important components of the course include using technology, designing projects, making research, mastering presentations, solving critical thinking questions, and performing laboratory experiments. In this course students are exposed to five major branches of chemistry which are stoichiometry, thermodynamics, Gases and the kinetic molecular Theory, solutions and their colligative properties, and organic chemistry. Students will explore these topics using the Next Generation Science Standards which include Cross-cutting Science Concepts, Science and Engineering Practices as well as chemistry Content Standards. This course is suited for students interested in a two-year commitment to a chemistry course in preparation for any science-related major.

Title: AP Biology

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: An average of 80% in Biology 9 and Human Anatomy

It is an advanced biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: chemistry of life, cell structure and function cellular energetics, cell communication and cell cycle, and Heredity and gene expression.

Some of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. Students should be able to describe how to collect data, use data to form conclusions, and apply their conclusions to larger biological concepts.

Title :Health and Nutrition

Length & Credit: 1 semester / 0.5 Credit

Grade: 11

Prerequisite :None

In this course, students will distinguish between facts and myths regarding nutrition practices, products, and physical performance, they will describe dietary guidelines, food groups, nutrients, and serving sizes for healthy eating habits and will analyze the relationship between poor eating habits and chronic diseases such as heart disease, obesity, cancer, diabetes, hypertension, and osteoporosis. They will identify the causes, symptoms, and harmful effects of eating disorders. Concepts about the impact of tobacco on brain chemistry, brain function, and behavior are explained too. Students will discuss ways to reduce the risk of injuries that can occur during activities. They will be able to describe procedures for emergency care and lifesaving, including CPR, first aid, and control of bleeding and will identify ways to stay safe during natural disasters and emergency situations. Mental, emotional and social health issues in addition to personal and community health issues are addressed.

Title :Environmental Science

Length & Credit: 1 semester / 0.5 Credit

Grade: 11

Prerequisite :None

The Environmental science course will prepare students with the knowledge and ability to apply scientific reasoning to applications in real life . This is achieved by integrating the disciplinary core ideas to science and engineering practice skills of questioning, modeling, analyzing of data, constructing explanations, and communication. Students will explore ecosystems, natural resources, human impact, and the cycling of matter. Students will be able to create solutions to environmental problems supporting it with evidence . They will perform practical and virtual laboratory investigations.

Title: Physics (II)

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: Completion of Physics I

Students will develop an understanding of physics principles and the ability to reason about physical phenomena using important science process skills such as explaining causal relationships, applying and justifying the use of mathematical routines, and analyzing data. Problem solving, communication and reasoning skills, active participation, and critical thinking are emphasized in this course. Topics included are: Thermal Physics, Waves, Optics, Electric Forces and Electric Fields,

Electrical Potential Energy and Potential Difference, Electrical current and resistance, Electrical Circuits, Magnetism, and Atomic Physics.

Title: Calculus Based AP Physics C : Electricity and Magnetism

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: Completion of Advanced Physics I with an average of 80 and above .

Students should have taken or be concurrently taking Advanced calculus.

It is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation.

The course content is organized into five commonly taught units, which have been arranged in the following suggested, logical sequence:

- Unit 1: Electrostatics
- Unit 2: Conductors, Capacitors, Dielectrics
- Unit 3: Electric Circuits
- Unit 4: Magnetic Fields
- Unit 5: Electromagnetism

In addition, the following big ideas serve as the foundation of the course, enabling students to create meaningful connections among concepts and develop deeper conceptual understanding:

- Change: Interactions produce changes in motion.
- Force Interactions: Forces characterize interactions between objects or systems.
- Fields: Fields predict and describe interactions.
- Conservation: Conservation laws constrain interactions

Science Practices

The following science practices describe what skills students should develop during the course:

- Visual Representations: Analyze and/or use [non narrative/ nonmathematical] representations of physical situations, excluding graphs.
- Question and Method: Determine scientific questions and methods.
- Representing Data and Phenomena: Create visual representations or models of physical situations.
- Data Analysis: Analyze quantitative data represented in graphs.
- Theoretical Relationships: Determine the effects on a quantity when another quantity or the physical situation changes.
- Mathematical Routines: Solve problems of physical situations using mathematical relationships.
- Argumentation: Develop an explanation or scientific argument

In addition, the topics required for EMSAT are covered such as: Rotational Motion, Fluid Mechanics, Thermodynamics, Thermal Physics, Waves , Sound, Optics Nuclear & Atomic Physics.

Title: AP Biology

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: An average of 80% in Biology 9, Human Anatomy and Advanced 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.

Some of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. Students should be able to describe how to collect data, use data to form conclusions, and apply their conclusions to larger biological concepts.

Big ideas of the course and a brief description of each:

- Evolution: The process of evolution drives the diversity and unity of life.
- Energetics: Biological systems use energy and molecular building blocks to grow, reproduce, and maintain dynamic homeostasis.
- Information Storage and Transmission: Living systems store, retrieve, transmit, and respond to information essential to life processes.
- Systems Interactions: Biological systems interact, and these systems and their interactions exhibit complex properties.

AP Biology Practices

- **Concept Explanation** : Explain biological concepts, processes, and models presented in written format.
- **Visual Representations** :Analyze visual representations of biological concepts and processes.
- **Questions and Methods** : Determine scientific questions and methods.
- **Representing and Describing Data** : Represent and Describe Data
- **Statistical Tests and Data Analysis** : Perform statistical tests and mathematical calculations to analyze and interpret data.
- **Argumentation** : Develop and justify scientific arguments using evidence.

Title: AP Chemistry

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: An average of 80% or above in Chemistry 10 , Advanced Chemistry I and a recommendation from the teacher in Chemistry I

This is an Advanced Chemistry course that provides the opportunity to apply chemical principles related to everyday life and industry. When studying chemical equilibrium, acids and bases, reaction rates, electrochemistry, and nuclear energy, students get opportunities to investigate the usefulness of the reactions. The corresponding calculations provide the tools to investigate and support the students' responses. These units focus on problem-solving and decision-making. One way to introduce this unit is to begin with a contextualized problem requiring students to learn chemistry to solve the problem and make decisions. Many chapters in this course integrate the societal, pharmaceutical or industrial importance of specific compounds. An important aspect of any chemistry class is laboratory experience. Students will participate in micro-scale labs in which they will safely perform a variety of experiments. Lab results will be recorded in students' lab notebooks, and formal lab reports will be completed.

Social Science Department

Title: MOE Social Studies

Length & Credit: 1 year / 0.5 Credit

Grade: 9

Prerequisite: None

تقدم مادة الدراسات الاجتماعية دراسة منهجية معمقة للمعلومات والمهارات والمفاهيم في كل من تخصص التاريخ والعلوم السياسية والاقتصاد وعلم الإنسان وعلم النفس والقانون وعلم الآثار والدراسات الاجتماعية ، وهي تخصصات تركز الأنظار على الروابط والعلاقات التي تجمع بين مختلف الشعوب والأمم والعلاقة بين العلم والتقنية والمجتمع ، كيفية ممارسات المواطنة الصالحة ، فضلاً على أن الدراسات الاجتماعية تساعد الشباب في تطوير معارفهم ومهاراتهم المختلفة الضرورية لاتخاذ قرارات صائبة كأعضاء فاعلين في مجتمع يسوده التنوع الثقافي ضمن عالم مترابط فيما بينه .

انطلاقاً من رؤية دولة الإمارات العربية المتحدة تم إعداد منهج الدراسات الاجتماعية وفق معايير عالمية تركز ارتكازاً تراكمياً واعياً على مهارات القرن الحادي والعشرين، ومهارات التفكير الناقد، الابتكار والابداع. قُسم كتاب الدراسات الاجتماعية إلى ثلاثة أقسام، القسم الأول قُسم إلى وحدتين الأولى تشتمل موضوعات وطنية مثل دستور دولة الإمارات العربية المتحدة. والتضامن العربي ... وثيقة الأخوة الإنسانية لترسيخ أهمية الوحدة والترابط بين أبناء الوطن العربي والعالم الخارجي من أجل إحلال السلام فيما بينهم، والروابط التي تجمع أبناء الإمارات والفهم الأعمق للنظم الاجتماعية والسياسية والاقتصادية للأحداث والاتجاهات والشخصيات والتحركات التاريخية سواء المحلية منها والعالمية.

والثانية دراسة للدولة العثمانية والوطن العربي جوانب تاريخية من العالم الإسلامي بداية من الدولة العثمانية، نشأتها وأهم إنجازاتها التاريخية ومنجزاتها الحضارية وعوامل ضعفها وانهيارها، وتوسيع مدارك الطلاب والحفاظ على ثروات بلادهم.

والقسم الثاني يشمل جوانب القضايا السكانية المعاصرة مثل سكان الوطن العربي، ومن أهم القضايا السكانية البطالة، والتضخم السكاني، التلوث، والازدحام السكاني.

الوحدة الثالثة تشمل جوانب عن زايد والمرأة الإماراتية، والهوية الإماراتية، وهويتي مسؤوليتي، وقبة النور حيث تشمل بعض جوانب النهضة في دولة الإمارات العربية المتحدة مثل متحف اللوفر،

والتاريخ فكر يتحدث حضارة بلاد الرافدين والربط بين بيت الحكمة وعام القراءة لدولة الإمارات حيث منارة العلم الحديث في إنشاء بيت الحكمة في العاصمة الثقافية لها (الشارقة).

ومن المهارات التي يتعلمها الطالب العمل الجماعي وتبادل الأفكار، استخدام التقنيات، تبادل الخبرات ورسم الخرائط وقراءة الرسم البياني والجداول وتحليلها، كذلك حل المشكلات ثم صياغة الحلول لها مع اقتراح الحلول القائمة على المنطق والبراهين. كما يتعين عليهم فهم أهمية جمع البيانات وتحليلها وأهمية البحوث المكتبية والميدانية والمناظرات والمناقشات والتي كلها تشكل عناصر أساسية لاتخاذ قرارات مهنية ناجحة.

Title: Modern History

Length & Credit: 1 year / 1 Credit

Grade: **10** Compulsory

Prerequisite: None

Studying the Modern History course enables students to become critical thinkers and helps inform their judgements and actions in a rapidly changing world. Students are exposed to a variety of historical sources in order to determine the cause and effect, and the motives and forces influencing people and events during the major world wars and the Cold War. Students will also focus on how to read , understand, and analyze maps. Through the process of historical inquiry, students are encouraged to question and evaluate historical events; identify various representations and versions of history; use evidence to formulate and support their own interpretations; and communicate their findings in a variety of ways.

Human Geography: Our Global Identity

Length & Credit: 1 semester/ 0.5 Credit

Grade: 11

Prerequisite: None

How do language and landscape affect the physical environment? How do geography, weather, and location affect customs and lifestyle? Students will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. Students will discover how ideas spread and cultures form, and learn how beliefs and architecture are part of a larger culture

complex. In addition to introducing students to the field of Human Geography, this course will teach students how to analyze humans and their environments.

Title: Ancient History

Length & Credit: 1 semester / 0.5 Credit

Grade: 11 /12

Prerequisite: None

Ancient History broadens the students' Knowledge of civilizations that dominated the world throughout History. It analyzes historical eras and events. The course provides overviews of content and deepens the students' analytical skills. It supports Inquiry and Active learning by giving multiple possibilities for discussing, debating and deep thinking and engagement.

The analyses of Civilizations' rises and falls enable the students to understand the causes and analyse results to inspire and encourage their love of learning.

By delivering an immersive experience through compelling narratives enriched with a digital media, students are connected through experiences that are energizing, inspiring and memorable.

The course offers the students a robust, intuitive experience.

Title: Economics

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: None

This course uses a concept-driven and interactive approach to develop economic literacy. It uses real-world examples, frequent concept application, and continuous updating to ensure that students and teachers stay abreast of the very latest economics news and information. A variety of print and technology resources are integrated into this comprehensive program providing teachers and students with the tools needed for success, from easy-to-use teaching tools to assessment tools that inform instruction. The course follows a consistent Concept-Example-Application approach, offering students a chance to make sure they fully understand the material before moving on. Because economics builds on itself, almost like math or a world language, this helps keep students on pace.

Students are introduced to the basics of economic principles, and learn how to think like economists. They explore different economic systems, including the American free enterprise system, analyze and interpret data, and consider economic applications in today's world. From economics in the world of business, money, banking, and finance, students see how economics is applied both domestically and globally. The main focus will be on: Scarcity: The Basic Economic Problem, Economic Systems, Demand, Supply, Market Structures and Types of Business Organizations.

Title: Economics (II)

Length & Credit: 1 year / 1 Credit

Grade: **12**

Prerequisite: Completion of Economics

This course is considered an advanced Economics course, because it goes deeply into fundamental economic ideas and the operation of the economy on a national scale. The role of labor, money & banking, financial markets, economic Indicators and measurements, facing economic challenges, international trade, the role of government, the national income and its distribution, GDP, savings function, stocks and bonds, aggregate demand and aggregate supply. Analysis of monetary policy, including the banking system and the Federal Reserve System is also discussed. After this course students will gain strong analytical and problem-solving skills. As well as, the business acumen necessary to succeed in the professional world. They will be able to view the world events from an economist's point of view.

Information Technology Department

Title: [Introduction to Programming through Video Game Design and building iOS Apps](#)

Length & Credit: 1 year /0.5 Credit

Grade: **9**

Prerequisite: None

Technology has a language. It's called code. And we believe coding is an essential skill. Learning to code teaches you how to solve problems and work together in creative ways. And it helps you build apps that bring your ideas to life. We think everyone should have the opportunity to create something that can change the world.

Learn to Code 1,2 & 3

By solving puzzles in a dynamic 3D puzzle world, students will develop a set of coding skills to build up their basic programming vocabulary. Their coding journey begins with simple commands, functions and loops. From the start, they'll write real Swift code — the same code used by real programmers.

They'll journey beyond simply solving puzzles and create worlds of their own and finally students will expand the coding skills they learned in previous lessons to start thinking more like an app developer.

Title: [App Development with Swift Course](#)

Length & Credit: 1 semester / 0.5 Credit

Grade: 9

Prerequisite: None

This course is designed to teach students the skills needed to be an app developer capable of bringing their own ideas to life. By the end of this course they should be able to build a fully functioning app of their own design.

The course starts by introducing iOS development tools, basic programming concepts using Swift as the language, and industry best practices. Building on this foundation, we will follow a step-by-step curriculum, work through practical exercises, and create apps from scratch.

Students will build five projects, beginning with a simple flashlight app that changes the background color of the screen and ending with a shopping app that works with network services to communicate with a web server. After they finish the course projects, they will have a chance to build their own personal project, working through design, prototyping, and development phases.

Title: [Media/ Film Production](#)

Length & Credit: 1 semester / 0.5 Credit

Grade: 10

Prerequisite: None

The Media and Film Production course covers a broad combination of creative and film areas. Students will learn how to design and create across a range of digital platforms to develop their concepts into reality.

This course examines all the processes which go into the creation of a film, from its inception as a treatment and screenplay to its distribution as a film. Students will participate in short film production during the course and will understand the importance of Pre-production, production, and post-production.

Title: [Computer Science Principles](#)

Length & Credit: 1 semester / 0.5 Credit

Grade: 11

Prerequisite: None

An introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work,

explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Section 1: Computer Science Theory

Main computer science theory domains such as computer systems and network, data analysis, and impacts of computing.

- Computing Systems and Networks
- Data Analysis
- Impacts of Computing

Section 2: Problem Solving and Programming Practices

- Algorithms and Programming

Title: Artificial Intelligence

Length & Credit: 1 semester / 0.5 Credit

Grade: 11

Prerequisite: None

Students will take on the concept of Artificial Intelligence from its core pillars up to coding and implementing Machine Learning models and programs. The course covers the technological advancements that enabled AI to become a reality, then moves on to exploring what AI is in depth, teaching students what differentiates this concept from the conventional programming that we are very familiar with today.

Title: Engineering Design - Advanced

Length & Credit: 1 semester / 0.5 Credit

Grade: 12

Prerequisite: None

Students will study Design Engineering, which includes Robotics (Level 2) , Arduino module and 3D Printing

Robotics is a project-based curriculum that is motivating and engaging for many students. It draws on, and develops, learning related to the disciplines of science, technology, engineering and mathematics (STEM). At this stage, students will explore the processes of design and programming, and develop solutions of real-life problems, using EV3 LEGO robots.

The Arduino module is also a part of the engineering design course, where students explore aspects of electronics, circuitry, programming and processes of design. Students learn about these

aspects through researching, designing circuitry, and utilizing and programming electronics using Arduino modules and LittleBits. Students will apply what they learn by designing a final Project.

During this course students will be introduced to 3D printing and 3D modeling concepts. They will integrate different engineering concepts to bring their ideas to life and have the chance to work like design engineers. Students will be using a modeling software where they will have to reverse engineer real life models, design their own prototypes, and work on big group projects which they will present.

Visual and Performing Arts Department

Title: [Visual Arts & Art History](#)

Length & Credit: 1 semester / 0.5 Credit

Grade: **9**

Prerequisite: None

Fine Arts Course (Unit of work):

This course focuses on the Elements of Art and Principles of Design and the ways they can be applied within individual media forms, and it will cover fundamental principles of visual design also including composition, typography, style, tools, materials, and the organization of visual information. As a course in design process, there will be an emphasis on different methods for working, including concept development through process and repetition.

Art History Course (Unit of work):

This course introduces students to a broad range of issues, skills, and practices in the field of visual studies with an emphasis on works of art. It is designed to familiarize students with some of the major periods in both Western and Non-Western art history as well as the compelling methodologies and questions of the art historian. The course train student in formal and visual analysis and guide them in examining artworks within appropriate contextual and cultural frameworks.

Title: [Studio Art & Design \(Advertising & Digital Design - 3D Sculpture\)](#)

Length & Credit: 1 semester / 0.5 Credit

Grade: **9**

Prerequisite: None

Advertising & Digital Design Course (Unit of work):

Advertising & Digital Design is a comprehensive course that trains students in all aspects of digital designing. It gives them foundation in the fundamentals & techniques of digital illustrations, typography techniques, digital advertising concepts, digital video techniques and online advertising.

This course combines technology with creativity in concept, design, advertising, and marketing.

3D Sculpture Course (Unit of work):

In this course, students will become familiar with and learn how to use the elements of visual design, a variety of materials, processes, and techniques through a wide range of visual 3D media. Through a series of exercises, students will explore the possibilities of expression that arise when a variety of media and supportive surfaces are combined.

Students should anticipate a studio-based art class which may include creative problem solving, production of artwork, critiques, self-evaluation, readings and note taking. In the 3D Design art class, the curriculum is based on a theme. This theme allows students to make connections between art, academics, and their personal world.

Title: Studio Art & Design (3D Sculpture - Geometrical Design -Mixed Media Fiber Art - Fine Arts)

Length & Credit: 1 semester / 0.5 Credit

Grade Level(s): Grade **11**

Prerequisite: A minimum average of 80% must be obtained in the last art course or teacher recommendation.

Geometrical Design Course (Unit of work):

In this course, students will be introduced to learn how to make repeating geometric patterns based on traditional shapes from ancient cultures with contemporary touch that can be applied to all types of products. Discover endless ways to illustrate using basic shapes and design complex, eye-catching compositions to create designs with a distinct personality and style.

Mixed Media Fiber Art Course (Unit of work):

This course will give students the opportunity to have a creative, in-depth experience working with mixed media, fibers (yarn, rope, twine, felt), and unconventional materials as artistic mediums. Students will learn about fiber art and create artworks on a loom, dye their own textiles, and even make functional artwork like bags, and wall hangings.

Students will be encouraged to create and develop their own personal artistic style within their body of work.

Fine Arts Course (unit of work):

This course focuses on the Elements of Art and Principles of Design and the ways they can be applied within individual media forms, and it will cover fundamental principles of visual design also including composition, typography, style, tools, materials, and the organization of visual information. As a course in design process, there will be an emphasis on different methods for working, including concept development through process and repetition.

3D Sculpture (Unit of work):

3D Sculpture is a studio project orientated class exploring different media areas of 3-Dimensional. The emphasis of this course is to expose students to 3D art mediums and to build their creative skills through the elements and principles of design. These projects will be mostly sculptural based for 3D work. Projects may include Ceramic projects, Cardboard creation, soap carving, Duct Tape, Cardboard Relief Sculpture, and recycled art.

Title: Studio Art & Design (Fashion Design - Geometrical Design -Mixed Media Fiber Art - Fine Arts)

Length & Credit: 1 semester / 0.5 Credit

Grade Level(s): Grade **12**

Prerequisite: A minimum average of 80% must be obtained in the last art course or teacher recommendation.

Fashion Design Course (Unit of work):

This course introduces students to basic fashion design principles, including proportion, exploring colour qualities and interactions, garment & clothing details, and terminology.

As well as developing and editing collections and studying current fashion trends. This course also includes basic figure and technical drawings.

Geometrical Design Course (Unit of work):

In this course, students will be introduced to learn how to make repeating geometric patterns based on traditional shapes from ancient cultures with contemporary touch that can be applied to all types of products. Discover endless ways to illustrate using basic shapes and design complex, eye-catching compositions to create designs with a distinct personality and style.

Mixed Media Fiber Art Course (Unit of work):

This course will give students the opportunity to have a creative, in-depth experience working with mixed media, fibers (yarn, rope, twine, felt), and unconventional materials as artistic mediums. Students will learn about fiber art and create artworks on a loom, dye their own textiles, and even make functional artwork like bags, and wall hangings.

Students will be encouraged to create and develop their own personal artistic style within their body of work.

Fine Arts Course (unit of work):

This course focuses on the Elements of Art and Principles of Design and the ways they can be applied within individual media forms, and it will cover fundamental principles of visual design also including composition, typography, style, tools, materials, and the organization of visual information. As a course in design process, there will be an emphasis on different methods for working, including concept development through process and repetition.

Arabic Language

Title: Arabic 9

Length & Credit: 1 year / 1 Credit

Grade: 9

Prerequisite: None

وُضع منهج الصف التاسع للطالب؛ ليستفيد منه، ويستمتع بقراءته، وقد صُمم تصميمًا بسيطًا واضح، وقُسم إلى ثلاثة فصول في كل فصل ستة أقسام هي: القراءة، الاستماع، المحادثة، الكتابة، النحو، البلاغة. أما نصوص القراءة فقد تنوعت ما بين القرآن الكريم والحديث الشريف، والنصوص الأدبية، ونصوص الرأي، والنصوص المعلوماتية.

إن الأفكار والأسئلة الواردة في الكتاب هي للطالب، وهي ليست مفصولة عن عالم الأدب؛ فالأدب يناقش قضايا الإنسان الكبرى، فعلى الطالب أن يكون قارئًا ماهرًا يقرأ السطور وما بين السطور، ويحث الطالب على أن يخصص جزءًا من وقته للكتاب والمطالعة لأهميتها.

يكتسب الطالب مهارات القراءة الذاتية، والدخول إلى عالم الرواية، ومشاهدة شخصها وهي تمر بالأزمات، وهي تنكسر أو تنتصر، وهي تخوض تجارب تشابه تجاربنا في الحياة، ومنها سيتعلم الطالب عن اللغة والحياة والناس ما لم يعلمه من قبل.

Title: Arabic 10

Length & Credit: 1 year / 1 Credit

Grade: 10

Prerequisite: Completion of Arabic 9

يهدف المنهج إلى تطوير مهارات الطالب اللغوية، من خلال التفاعل الواعي مع مضامين النصوص وأفكارها، وركز على ستة محاور هي: القراءة، الاستماع، المحادثة، الكتابة، النحو والبلاغة. وقسمت نصوص القراءة إلى أقسام: القرآن الكريم، الحديث الشريف، النصوص الأدبية، ونصوص الرأي، والنصوص المعلوماتية. وقد ركز المنهج على جعل الطالب شريكًا فاعلًا في عملية التعليم والتعلم، وقدم روافد للطالب نصوص رديفة؛ لتكون رافدا مهما لمن أراد أن يبدأ رحلة القراءة والتنقيف والمعرفة.

Title: Arabic 11

Length & Credit: 1 year / 1 Credit

Grade: 11

Prerequisite: Completion of Arabic 10

يهدف المنهج إلى تطوير مهارات الطالب اللغوية، من خلال التفاعل الواعي مع مضامين النصوص وأفكارها، وركز على سنة محاور هي: القراءة، الاستماع، المحادثة، الكتابة، النحو والبلاغة. وقسمت نصوص القراءة إلى أقسام: القرآن الكريم، الحديث الشريف، النصوص الأدبية، ونصوص الرأي، والنصوص المعلوماتية. وقد ركز المنهج على جعل الطالب شريكا فاعلا في عملية التعليم والتعلم، وقدم المنهج روافد للطالب؛ لتكون رافدا مهما لمن أراد أن يبدأ رحلة القراءة والتنقيف والمعرفة. وقد زوّد الكتاب برسالة إلى الطالب تبين له كيفية التعامل مع النص المقروء والتوقعات المرجوة منه.

Title: Arabic 12

Length & Credit: 1 year / 1 Credit

Grade: 12

Prerequisite: Completion of Arabic 11

لما كانت اللغة العربية تمثل واحدا من مقومات الهوية الوطنية فقد حظيت باهتمام القائمين على شأن الميدان التربوي؛ ولذا روعي في تصميم وبناء المناهج الجديدة أن تلبي حاجات الطلاب وصقل مهاراتهم في مجالات البحث والتفكير ومهارات القرن الحادي والعشرين. ولتحقيق ذلك صُمم منهاج الصف الثاني عشر الجديد وفق محاور اللغة العربية الأربعة القراءة والكتابة والاستماع والتحدث، وقد تنوعت النصوص التي تخدم هذه المهارات ما بين أدبية ومعلوماتية. وفي دروس النحو روعي أن يكون الدور الأكبر فيها للطالب من تعلم وتدريب وسبر بعيدا عن النمط التقليدي المؤلف الذي ألفناه من قبل. وفي كل دروس اللغة العربية يتوقع من الطالب حضور ذهن والمشاركة الفاعلة، والتشجيع على إبداء الرأي، وبناء الأسئلة، والانتقال به من حالة التلقي السلبي إلى حالة المشاركة الإيجابية، كما يتوقع منه أن يولي ما يكتبه عناية كبيرة من مراجعة وتصحيح وتحريير وإنجاز في الوقت المحدد. وقد زوّد منهاج اللغة العربية بإرشادات وتوجيهات في مجالي القراءة والكتابة من حيث كيفية التعامل مع النص المقروء سواء أكان أدبيا أو معلوماتيا، وثمره هذا كله صقل مهارات الطالب وقدراته في مهارات اللغة الأربع.

Islamic Studies Department

Title: Islamic 9

Length & Credit: 1 year / 0.5 Credit

Grade: 9

Prerequisite: None

استهدف المنهاج تحقيق سمات الطالب الإماراتي، وتعزيز ولائه لوطنه بالاعتدال والتوسط والتسامح، واهتم بتنمية المهارات الأدائية الخاصة بالتربية الإسلامية، واعتنى بالقيم الإسلامية لبناء شخصيات واعية، تتمسك بدينها، وتعزز بثرائها، وتسهم في بناء وطنها.
المهارات: التلاوة - التفسير - التخيل - التصنيف - التحليل - إبداء الرأي - المقارنة - الاستنباط - مهارات التفكير الناقد والتفكير الإبداعي والابتكاري - الاستنتاج - التعليل.

Title: Islamic 10

Length & Credit: 1 year / 0.5 Credit

Grade: 10

Prerequisite: Completion of Islamic 9

قد وازن المنهاج بين المعرفة الدينية والأنشطة التعليمية، حيث قدم المعارف والمفاهيم الدينية اللازمة للطلاب، وفتح لهم مجال الاستزادة والإثراء عبر الأنشطة التعليمية الصفية في الوقت نفسه.
وهدف إلى تحقيق سمات الطالب الإماراتي وتعزيز ولائه وانتمائه إلى وطنه، وتحصينه من أفكار التطرف والإرهاب، وتنمية مهارات القرن الواحد والعشرين، ومهارات التفكير، وتحقيق متطلبات التنمية المستدامة.
المهارات: التلاوة - التفسير - التخيل - التصنيف - التحليل - إبداء الرأي - المقارنة - الاستنباط - مهارات التفكير الناقد والتفكير الإبداعي والابتكاري - الاستنتاج - التعليل.

Title: Islamic 11

Length & Credit: 1 year / 0.5 Credit

Grade: 11

Prerequisite: Completion of Islamic 10

ركز المنهاج على المعارف والمفاهيم الدينية التي يحتاج إليها الطالب مع ربطها بحياتهم المعاصرة وفق تعاليم الإسلام المتسمة بالاعتدال والتوسط والتسامح، كما اهتم بتنمية المهارات الأدائية الخاصة بالتربية الإسلامية، واعتنى بالقيم الإسلامية لبناء شخصيات واعية تتمسك بدينها، وتعزز بترائه.
المهارات: التلاوة - التفسير - التخيل - التصنيف - التحليل - إبداء الرأي - المقارنة - الاستنباط - مهارات التفكير الناقد والتفكير الإبداعي والابتكاري - الاستنتاج - التعليق.

Title: Islamic 12

Length & Credit: 1 year / 0.5 Credit

Grade: 12

Prerequisite: Completion of Islamic 11

اعتمد المنهاج في بنائه على مدخل الوحدات، حيث تضمنت كل وحدة موضوعات متنوعة، تمثل مجالات ومحاور المنهج بصورة متكاملة من الوحي الإلهي والعقيدة، وقيم الإسلام وآدابه وأحكامه، والسيرة النبوية والشخصيات والهوية الوطنية والقضايا المعاصرة.
كما استهدف تحقيق سمات الطالب الإماراتي، وتعزيز ولائه، وانتمائه إلى وطنه، تحصينه من أفكار التطرف والإرهاب، وحرص كذلك على تنمية مهارات القرن الحادي والعشرين، ومهارات التفكير الإبداعي، والابتكاري، وحل المشكلات، وصقل قدرات الطلاب وتوعيتهم باستثمار الإمكانيات المادية والبشرية، والمحافظة على ثروات الوطن، مع التركيز على المعارف والمفاهيم الدينية التي يحتاج إليها الطلاب، مع ربطها بحياتهم المعاصرة وفق تعاليم الإسلام

Physical Education & Health Science

Title: Physical and Health Education

Length & Credit: 1 year / 0.5 Credit / per grade level

Grade: 9 -12

Prerequisite: None

The high school experience represents the culmination of physical education. When students reach ninth grade, they are ready to integrate all that they know with all that they can do. They become capable of higher-order thinking and of more skilled performance. For high school students, their last opportunity for formal instruction in physical education. Course addresses combative, gymnastics/ tumbling, and team activities. Instruction on the effects of physical activity on dynamic health and the mechanics of body movement is integrated throughout the school year.

Students will acquire a broad range of fundamental skills and knowledge, related to movement and sport. Students will experience a variety of physical education activities. Skill development and game-play strategies related to activities such as movement skills in aerobic exercises, individual and dual activities and will develop and implement a one-month personal physical fitness plan. In addition, students will be able to explain the role of physical activity in the prevention of disease and the reduction of health care costs, develop personal goals to improve one's performance in physical activities and Identify and utilize the potential strength of each individual in physical activities.

Health education is an integral part of the education program for all students.

Health education is a continuum of learning experiences that enables students, as individuals and as members of society, to make informed decisions, modify behaviors, and change social conditions in ways that are healthy.

The health education California standards define the essential skills and knowledge that all students need in order to become “health literate”; they represent a strong consensus of the essential knowledge and skills that students should have at specific grade levels.

A primary goal of the health education standards is to improve academic achievement and health literacy for all students.

Overarching Content Standards and Rationales:

The Five overarching health content standards for grade nine through grade twelve are presented below, along with the rationale for each standard.

1-Understanding essential concepts about the relationships between behavior and health provides the foundation for making informed decisions about health-related behaviors and for selecting appropriate health products and services.

2-The ability to appropriately convey and receive information, beliefs, and emotions is a skill that enables students to manage risk, conflict, and differences and to promote health.

Managing health behaviors requires critical thinking and problem solving.

3-The ability to use decision-making skills to guide health behaviors fosters a sense of control and promotes the acceptance of personal responsibility.

4-Practicing healthy behaviors builds competence and confidence to use learned skills in real-life situations. The ability to adopt health-enhancing behaviors demonstrates students’ ability to use knowledge and skills to manage health and reduce risk-taking behaviors.

5-Personal, family, and community health are interdependent and mutually supporting. The ability to promote the health of oneself and others reflects a well-rounded development and expression of health.

Business Studies Department

Title: Accounting I

Length & Credit: 1 Semester / 0.5 Credit

Grade: 11

Prerequisite: None

The prime objective of this course is to introduce students to the double-entry system of accounting for sole proprietorship, corporate, and partnership forms of business enterprises by using real-world applications and connections. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements. Other important objectives include the following:

- To help students develop personal and professional skills for school and work.
- To help students understand the relationship between the manual system of accounting and a computerized system.
- To help students find success in accounting.

Title: Accounting II

Length & Credit: 1 Semester / 0.5 Credit

Grade: 11 & 12

Prerequisite: Completion of Accounting I

This course is an introduction to the basic concepts and standards underlying financial accounting systems. Several important concepts will be studied in detail, including: revenue recognition, inventory, long-lived assets, present value, and long term liabilities.

Accounting is the language of business, which is the process of recording, classifying, and summarizing financial information. Financial understanding of assets, liabilities, owner's equity,

revenues, and expenses are covered for a service business and a merchandising business. Financial papers (journals, ledgers, balance sheets, income statements, worksheets, and trial balances) are covered for both types of businesses.

The ability to work on a continuous flow with the intentions of relating one area of concentration to another is needed.

The course includes the detailed financial statements required by both sole proprietorships and partnerships including Income Statement- Balance Sheets and Statement of changes' in owner's equity. It goes beyond basic financial statements and accounts for division of income and loss among partners and the liquidation of partnerships. The course guides as an introduction for different majors of Accounting allowing the students to make future choices.

Title: Business I

Length & Credit: 1 semester / 0.5 Credit

Grade: 10

Prerequisite: None

This course provides an overview of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects.

Understanding Business introduces the world of business through a survey of fundamental concepts and challenges – managing change, economics, ethics and social responsibility, management and leadership, marketing, human resources, entrepreneurship, accounting and finance, global trade, information technology, and operations and supply chain. This course is designed to give students a full view of the business umbrella, as well as assist them in determining an area or two of business in which they would like to concentrate throughout their studies.

Title: Business II

Length & Credit: 1 semester / 0.5 Credit

Grade: 10

Prerequisite: Completion of Business I

This course cultivates a deeper understanding of the business world. It includes topics that demonstrate how organizations are managed and directed in real life. Upon completion, students will be prepared to apply business fundamental concepts professionally in the business workforce or independently as entrepreneurs; by giving them the opportunity to explore how businesses manage change, deal with ethical and social responsibility issues, take management and leadership decisions, solve marketing and human resources problems, take entrepreneurial risks, run global trade, operations and supply chain. This course is designed to give students a working knowledge of business, as well as assist them in determining an area or two of business in which they would like to concentrate throughout their studies and career.

Title: **Marketing 2**

Length & Credit: 1 Semester / 0.5 Credit

Grade: 12

Prerequisite: Completion of Marketing 1

This course develops the primary components of marketing. The basic idea of effective marketing is simple: It is about putting the right product or service in the place, at the right time, and at the right price. The difficult part is doing this well. Students will learn how marketers deliver value in satisfying customer needs and wants, determine which target markets the organization can best serve, and decide upon appropriate products, services, and programs to serve these markets. This course is designed to enable students to understand and apply marketing, management, and entrepreneurial principles, make rational economic decisions, and exhibit social responsibility in a global economy. Students will be challenged to analyze ethical implications of various marketing practices. Subjects covered include consumers, market research and target markets, feasibility analysis, products, promotion, price planning, pricing strategies, international marketing and use of technology in marketing. The course also allows the students to develop their communication, interpersonal and leadership skills.

**AL ITTIHAD NATIONAL
PRIVATE SCHOOL**

High School Tracks

2022/2023

GENERAL TRACK - BUSINESS

Grade 9	Grade 10	Grade 11	Grade 12
	Business I	Accounting I	Marketing II
	Business II	Accounting II	Accounting II

GENERAL TRACK – DESIGN & INNOVATION

Grade 9	Grade 10	Grade 11	Grade 12
Game Design	Theater, Cinema and film production	Computer Science Principles	Engineering Design
App Development	Media/Film Production	Artificial intelligence	Studio Art & Design
		Studio Art & Design	

GENERAL TRACK – HUMANITIES & LANGUAGE

Grade 9	Grade 10	Grade 11	Grade 12
English Writer's Lab	Theater, Cinema and film production	Creative writing	Journalism 1
Public Speaking	Media/Film Production	Ancient History	Journalism 2
		Human Geography	Ancient History

ADVANCE TRACK – MEDICAL FIELD

Grade 9	Grade 10	Grade 11	Grade 12
	Advanced Biology	Advanced Chemistry	AP Chemistry Or AP Biology
		AP Biology	AP Physics
		Advanced Physics	
		Advanced Math	AP Calculus
		Health and Nutrition	

ADVANCE TRACK – ENGINEERING FIELD

Grade 9	Grade 10	Grade 11	Grade 12
Game Design		Advanced Chemistry	AP Chemistry
App Development		Computer Science	AP Physics
		Advanced Physics	AP Calculus
		Artificial intelligence	Engineering Design
		Advanced Math	

ADVANCE TRACK – SCIENCE FIELD

Grade 9	Grade 10	Grade 11	Grade 12
		Advanced Chemistry	AP Chemistry
Game Design	Advanced Biology	Environmental Science	AP Physics
		Computer Science	AP Calculus
App Development		Advanced Physics	Engineering Design
		Artificial intelligence	
		Health and Nutrition	AP Biology
		Advanced Math	
		AP Biology	