

Al-Maaref American School High School Academic Guide

2025-2026

MAS High School offers a rigorous college-preparatory program aligned with both the California Common Core State Standards and MOE National Standards, utilizing a U.S. Standards-Based grading system. Our challenging curriculum engages students through advanced coursework in language arts, STEM disciplines (incorporating scientific inquiry and engineering practices), mathematics, athletics, and the arts. We empower students to personalize their learning by selecting specialized electives and exercising voice and choice in their academic journey, while receiving dedicated support to align their studies with college and career aspirations. This comprehensive approach cultivates well-rounded scholars prepared to excel in higher education and beyond.

Minimum Graduation Credit:

MAS High school students are required to take 28 credits to graduate. The school offers students to enroll in a total of 28 credits throughout their four-year program. In keeping with the graduation requirements, each year high school students enroll in the MAS core academic courses:

Grade 9	Grade 10	Grade 11	Grade 12
English Language	English Language	English Options	English Literature
Biology	Chemistry	Physics	Science Options
Algebra I	Geometry and Algebra II	Algebra II	Math Options
Arabic Language	Arabic Language	Arabic Language	Arabic language
Islamic Studies	Islamic Studies	Islamic Studies	Islamic Studies
Social Studies	World History	Psychology	

In addition to Computer Studies and Physical Education a broad range of electives and co-curricular activities are offered such as business subjects' group, French language, psychology, Art courses, Sociology, Biochemistry, sustainability, communication and debate help students further explore their interests & abilities. Math options for Grade 12 include AP Calculus, Precalculus and statistics, while science options comprise of Anatomy and Environmental Science. English Options for Grade 11 include AP English and English language.

Students can choose from several course offerings. Advanced Placement (AP) courses sponsored by the College Board in the United States are offered to Grades 11 & 12 students. Grade 11 students can choose to sit for AP Psychology College board Exam.

Schedule: The Schedule is made up of two semesters in a single, academic calendar year.

- **Grades 9 -12:** Students will be taking an average of 7 credit hours per year

Credit Requirements (MOE/ California/ MAS)

Subject	California Req	MAS Offering
English	4	4
Math	4	4 (Including AP Course)
Science	3	4 Core Requirements 3 Electives (including AP Courses)
Social Studies/Social Sciences	2	2 Core Requirements (including AP Psychology)
Arabic	2 as part of World Language Req.	4
Islamic	-	2
Visual Art	1	1
Physical Education	2	2
Electives	1	4

*Once the semester begins in September or January, class changes are not permitted unless there is administrative approval.

College and Career Preparation Assessment Opportunities:

- PSAT is offered to 10th grade students during the middle of the academic year
- MAS is a certified SAT testing center. The school will be open for SAT exams.

Electives: There are a variety of electives available for students to choose. Most electives are one academic year in length.

Electives require student enrollment for the full academic year and are open per availability.

9	10	11	12	
Debate & Persuasive Leadership	Green Engineering & Sustainability	ICT	ICT	Biochemistry
Communication and Digital Design	Art Courses	Art	Art	Creative Design
Fundamentals of Art	Business and Entrepreneurship	Economics	Sociology	Journalism
	Music Courses	French	Music	Marketing

Advanced Placement (AP):

Advanced Placement (AP) courses are offered at Al-Maaref American School (MAS) during both semesters. Students in AP courses are encouraged to take the AP exams given during the second semester. The purpose of the AP class is to prepare students for the AP exam and college readiness.

Certain AP scores allow students to fulfill college graduation requirements & UAE equivalency. The HS counselor will provide the specific AP offerings.

25-26 MAS AP Course Offerings:

Grade	Subject	Prerequisite
Grade 11 Electives	AP Biology	Biology (Grade 9)
Grade 11 Electives	AP English language	English (Grade 10)
Grade 11 Electives	AP Chemistry	Chemistry (Grade 10)
Grade 11 Electives	AP Psychology	NA
Grade 12 Electives	AP Calculus	Algebra 2 (Grade 11)
Grade 12 Electives	AP Physics	Physics (Grade 11)
Grade 12 Electives	AP Chemistry	Chemistry (Grade 10)

**Note: All MAS AP course offerings will include a prerequisite component in the 25-26 academic year.*

Grading Notification Timelines: Progress Reports are provided for students through Digital Campus (DC). Report Cards are available for students during the allotted grading periods on DC.

25-26 Academic Year Grading Periods	Weight
Semester 1 Mid-term Progress Reports	-
Semester 1 Grades	40%
Semester 2 Mid-term Progress Reports	-
Semester 2 Grades	60%

Physical Education Exemption: Physical Education Exemption may be made by petition or medical excuse. Exemption for medical reasons require a medical note with doctor's signature giving a date on which physical activity may resume.

MAS Online Honor Code**A Commitment of Honor, Honesty, and Stewardship.**

AlMaaref American School Online Honor Code supplements the statement of Community Values and reflects the commitment students make as members of the learning community to participate in, foster, and uphold the Learning Model. Students in MAS HS agree to:

- Complete all work associated with the course and final exam with student's own work and only student's work.
- Answer all course questions in your own words and with your own thinking.
- Not engage in any activity that would dishonestly improve student's results or dishonestly improve or hurt the results of others.
- Not reproduce problems or answers for quizzes, exams, or any other means of assessing participant performance.
- Act as a steward of the Honor Code and encourage others to do so as well.

Graduation/College Preparation Requirements MAS

High School Graduation Requirements:

A minimum of 28 credits is required for students to earn a high school diploma.

College Preparation University Requirements:

Equivalency:

Students earning American high school diploma in UAE need to get their equivalency certificate to join certain universities within the country or outside the country.

Egypt:

Students From Egypt and who plan to join a university in Egypt should fulfil the Egyptian equivalency requirements:

- Students' GPA will be calculated as 60% from SAT I Exam score and 40% from 8 school courses that have the weight of one credit hour.
- School courses can be chosen from Grades 11 and 12 and in some cases Grade 10, the student chooses the 8 subjects with the highest scores.
- Students planning to join any scientific faculty should sit for 2 ACT subject Exams, if the students' intention is more for medical school ACT Biology should be one of the ACT subjects, If the plan is for engineering or computer related faculties one of the ACT subjects should be ACT Math.
- Students scoring above 1090 in SAT I will be able to get a 10% Bonus on the score.
- ACT Subjects are calculated as a bonus on the overall GPA.

New Equivalency Options (2021-2022)

Jordan:

Students from Jordan should be aware that they Jordanian universities or not. To be able to equal Jordanian equivalency of Gr 12 report. The requi summarized below:

Jordanian students have several options to choose f Certain AP scores allow students to fulfill colle counselor will provide the specific AP offerings.

Option 1	Percentage
6 ACT II	75%
School Grades (10, 11 & 12)	25%

Option 2	Percentage
4 ACT II	50%
1 AP	25%
School Grades (10, 11 & 12)	25%

Option 3	Percentage
4 ACT II	50%
ACT I	25%
School Grades (10, 11 & 12)	25%

Option 4	Percentage
2 ACT II	25%
2 AP	50%
School Grades (10, 11 & 12)	25%

Option 5	Percentage
2 ACT II	25%
1 AP	25%
ACT I	25%
School Grades (10, 11 & 12)	25%

Option 6	Percentage
3 AP	75%
School Grades (10, 11 & 12)	25%

Option 7	Percentage
2 AP	50%
ACT I	25%
School Grades (10, 11 & 12)	25%

Option 8	Percentage
8 ACT II	100%

Option 9	Percentage
6 ACT II	75%
ACT I	25%

Option 10	Percentage
6 ACT II	75%
1 AP	25%

Option 11	Percentage
4 ACT II	50%
1 AP	25%
ACT I	25%

Option 12	Percentage
4 ACT II	50%
2 AP	50%

Option 13	Percentage
2 ACT II	25%
3 AP	75%

Option 14	Percentage
2 ACT II	25%
2 AP	50%
ACT I	25%

Option 15	Percentage
3 Ap	75%
ACT I	25%

Option 16	Percentage
4 AP	100%

MAS UAE College Partnerships:

- Ajman University
- Skyline University
- Rochester Institute of Technology-Dubai
- Canadian University-Dubai
- American University-Sharjah
- American University- Dubai
- Heriot-Watt University – Dubai
- University of Wollongong - Dubai

MAS High School Course Descriptions

English

ENGLISH LANGUAGE ARTS 9

Credit: 1.0

1 Year

Grade Level (s): 9 Prerequisite/Corequisite (s): 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. Units will include short stories, drama, poetry, fiction, and nonfiction. A strong emphasis is placed on developing a lifelong passion for reading. In addition to reading and analyzing texts, the course emphasizes the development of writing, research, speaking, listening, grammar, and vocabulary skills.

PUBLIC SPEAKING 9 ELECTIVE

Credit: 1.0

Length: 1 Year Grade Level (s): 9

Prerequisite/Corequisite (s): ELA 8/ ELA 9

This course offers students an opportunity to develop advanced public speaking skills. The students will gain effectiveness in various speaking situations and will learn to be poised and articulate when speaking before an audience. Selective readings and written assignments will be given to prepare students to give persuasive and informative speeches, oral interpretation, and debate. Students during this course will be actively involved with giving speeches & debates through TedX & MUN MAS partnerships.

CREATIVE WRITING 9 ELECTIVE

Credit: 1.0

Length: 1 Year Grade Level (s): 9

Prerequisite/Corequisite (s): ELA 8

Students in this course will analyze various genres of literature and understand their cultural significance. The focus of this genre study will be how students analyze the critical attributes of varying modes of writing to appreciate and emulate the artistry of the writer. Students will then apply their creativity to compose various types of texts dependent on audience, purpose, and message. Throughout this course students are expected to incorporate appropriate standard grammar, punctuation, capitalization, and spelling into all written work.

ENGLISH LANGUAGE ARTS 10

Credit: 1.0

1 Year

Grade Level (s): 10 Prerequisite/Corequisite (s): None

English 10 examines a variety of literary genres (including historical text, speech, memoirs, short story, poetry and opinion) within and across a range of historical periods and cultural and national contexts. Students will develop skills of close reading, textual support, intertextual analysis, visual literacy, and critical thinking. A strong emphasis is placed on developing a lifelong passion for reading while prioritizing the development of student-centered writing skills in a variety of text types. Grammar and vocabulary are addressed as a means to improve

the breadth and depth of communication enhanced by the inclusion of speaking and listening skills.

ENGLISH LANGUAGE ARTS 11

Credit: 1.0

1 Year

Grade Level (s): 11 Prerequisite/Corequisite (s): None

This course will cover a wide variety of literary genre including speech, argumentative text, philosophical nonfiction, short stories and poetry. Students will continue to study writing as a process, vocabulary, speech, grammar, and research papers using the Modern Language Association (MLA) format.

ENGLISH LANGUAGE ARTS 12

Credit: 1.0

1 Year

Grade Level (s): 12 Prerequisite/Corequisite (s): None

This course will cover a wide variety of literary genres including biography, argumentative text, historical documents, drama, short story and poetry. Diverse writing styles from expressive and creative to expository prose will be taught. Students will learn standard research procedures and write a formal research paper using the Modern Language Association (MLA) format. Students will also be developing advanced speaking skills.

AP ENGLISH LANGUAGE & COMPOSITION

Credit: 1.0 ENG/CELT

Length: 1 Year

Grade Level (s): 11-12

Prerequisite/Corequisite (s): English 10/ *Prerequisite: B+ or better in English 10*

AP English Language and Composition is offered to students in Grade 11 or 12 who demonstrate advanced reading and writing skills. The course focuses on the rhetorical analysis of selected non-fiction passages, synthesis, and argument writing. By engaging in the reading and writing activities in the AP Language and Composition course, students will become enthusiastic participants in civic discourse. Students will gain the critical thinking skills necessary to deconstruct and analyze text not only within but also outside the academic setting. Students enrolled will be expected to take the College Board exam in May.

Math

MATH GRADE 9 Algebra I

Credit: 1.0

Length: 1 Year

Grade Level: 9

Prerequisite: Attain Grade 8 Math CA CCSS Course

This Algebra I course develops students' fluency with linear, quadratic, and exponential functions. The critical areas of instruction involve deepening and extending students' understanding of linear and exponential relationships by comparing and contrasting those relationships and by applying linear models to data that exhibit a linear trend. In addition, students engage in methods for analyzing, solving, and using

exponential and quadratic functions. Some of the overarching elements of the Algebra I course include the notion of function, solving equations, rates of change and growth patterns, graphs as representations of functions, and modeling. Throughout this course students participate in integrated projects with other subjects to enhance their application of learned Algebra I skills & concepts. To help students gain a deeper understanding of mathematics, the Standards for Mathematical Practice are connected to content instruction in this course.

MATH GRADE 10 Geometry

Credit: 1.0

Length: 1 Year

Grade Level: 10

Prerequisite: Attain Algebra I Concepts & Skills

The purpose of this Geometry course is to introduce students to formal geometric proofs and the study of plane figures, culminating in right-triangle trigonometry and circles. Students learn to construct formal proofs by applying previously defined terms and concepts, strengthening their logical reasoning and problem-solving skills.

The course explores similarity in depth, highlighting the development of trigonometric relationships and applications in right triangles. Connections between algebra and geometry are emphasized through the use of the Cartesian coordinate system, where students study analytic geometry. Probability is also introduced, with applications in real-world contexts.

Major areas of focus include geometric transformations, congruence and similarity, proving geometric theorems, right-triangle trigonometry, analytic geometry, and probability. Integrated projects with other subjects provide opportunities for students to apply geometric skills in meaningful ways.

To deepen mathematical understanding, the **Standards for Mathematical Practice** are embedded throughout the course, ensuring that students not only master content but also develop critical thinking, reasoning, and communication skills essential for success in mathematics.

MATH GRADE 11 ALGEBRA 2

Credit: 1.0

Length: 1 Year

Grade Level: 11

Prerequisite: Attain Algebra I & Geometry Concepts

This Algebra II course follows the Math CA CCSS & extends students' understanding of functions and real numbers and increases the tools students have for modeling the real world. Students in this course extend their notion of number to include complex numbers and see how the introduction of this set of numbers yields the solutions of polynomial equations and the Fundamental Theorem of Algebra. Students deepen their understanding of the concept of function and apply equation-solving and function concepts to many different types of functions. The system of polynomial functions, analogous to integers, is extended to the field of rational functions, which is analogous to rational numbers. Students explore the relationship between exponential functions and their inverses, the logarithmic functions. Trigonometric functions are extended to all real numbers, and their graphs and properties are studied. Finally, students' knowledge of statistics is extended to include understanding the normal distribution, and students are challenged to make inferences based on sampling, experiments, and observational studies. Throughout this course students participate in integrated projects with other subjects to enhance their application of learned Algebra 2 skills & concepts.

To help students gain a deeper understanding of mathematics, the Standards for Mathematical Practice are connected to content instruction in this course.

MATH GRADE 12 Pre-Calculus (Pre-Requisite Areas Offered in AP Calculus)

Credit: 1.0

Length: 1 Year

Grade Level: 12

Corequisite: Attain 90% or higher in Algebra (I & II) & Geometry concepts

This Pre-calculus course will be part of the AP Calculus Grade 12 course that completes the formal study of the functions begun in Algebra I and Algebra II. Students focus on modeling, problem solving, data analysis, trigonometric and circular functions and their inverses, polar coordinates, complex numbers, conics, and quadratic relations. Discrete topics include the Proof by Induction and the Binomial Theorem along with sequences and series. The instructional design is based on CA Math State Standards. This course includes scaffolding in the form of animation, feedback, and hints. Embedded critical mistakes and common misconceptions guidance lead students to understand the reasoning behind correct and incorrect responses. There is also an emphasis on repetition and practice. Throughout this course students participate in integrated projects with other subjects to enhance their application of learned Pre-Calculus skills & concepts. To help students gain a deeper understanding of mathematics, the Standards for Mathematical Practice are connected to content instruction in this course.

MATH GRADE 12 AP CALCULUS AB

Credit: 1.0

Length: 1 Year

Grade Level: 12

Prerequisite: Attain at 90% or higher in Algebra (I & II) & Geometry concepts

AP Calculus AB is offered to students in Grade 12 who have passed the prerequisite Algebra & Geometry coursework. In this course, students explore the concepts, methods, and applications of differential and integral calculus. Students will work to understand the theoretical basis and solve problems by applying their knowledge and skills.

Skills that will be learned during this course:

- Determining expressions and values using mathematical procedures and rules
- Connecting representations
- Justifying reasoning and solutions
- Using correct notation, language, and mathematical conventions to communicate results or solutions

Throughout this course students participate in integrated projects with other subjects to enhance their application of learned AP Calculus skills & concepts. To help students gain a deeper understanding of mathematics, the Standards for Mathematical Practice are connected to content instruction in this course.

Science

BIOLOGY GRADE 9

Credit: 1.0

Length: 1 Year

Grade Level(s): 9

Prerequisite: Successful completion of grade 8 Science

Biology Grade 9 is a laboratory-based science emphasizing the process of scientific investigation through the study of living things. Throughout the course, skills in experiment design, experiment reporting and scientific thinking are developed. Emphasis is placed on critical thinking and the investigation process through application of Science Engineering Practices. Topics covered include: Biomolecules; Cells and Cellular Processes; Energy Conversions; DNA and the Cell Cycle; Meiosis and Mendel; Protein Synthesis and Biomolecules; Biological Evolution; Classification and Microorganisms; Plant and Body Systems; and Ecology.

CHEMISTRY GRADE 10

Credit: 1.0

Length: 1 Year

Grade Level(s): 10

Prerequisite: Successful completion of grade 8 Science

Chemistry is the study of matter. In this course, students will explore matter from its smallest detail to its broadest scope. This interdisciplinary, inquiry-based class will focus on the application of chemistry concepts to real world examples through thematic units. Topics will include Chemical Reactions, Food Chemistry and Environmental Chemistry with emphasis on the application of concepts to real world issues. Emphasis is on concept and skill-development and the application of concepts to everyday life-situations, rather than the memorization of facts. Course activities will include lecture-demonstrations, laboratory experiments, research projects, case studies, and model making. Through practical work, students will be encouraged to question the validity and reliability of data, and to appreciate the value of the scientific method and reasoning. Students will work on developing skills such as experiment planning and design, report writing, and scientific thinking according to NGSS Science Engineering Practices.

PHYSICS GRADE 11

Credit: 1.0

Length: 1 Year

Grade Level(s): 11

Prerequisite: Successful completion of grade 10 Chemistry and Algebra 1 (Grade 9)

Physics is the most fundamental of the experimental sciences as it seeks to explain the universe itself. Topics studied in this course include HS level mechanics, thermodynamics, waves, electricity and magnetism. This course allows students to develop traditional practical skills and techniques and to increase facility in the use of mathematics, which is the language of Physics. It also allows students to develop interpersonal, information, communication and technology skills, which are essential in modern scientific endeavours and are important life-enhancing, transferable skills. Topics studied include circular motion and gravitation, atomic, nuclear and particle physics and energy production. This course allows students to develop traditional practical skills and techniques and to increase facility in the use of mathematics, which is the language of Physics.

AP BIOLOGY (ELECTIVES) 11

Credit: 1.0

Length: 1 Year

Grade Level(s): 11 Prerequisite: N/A

The AP Biology course is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

*Grade 12 will select one of the below courses for science

ENVIRONMENTAL SCIENCE 12

Credit: 1.0

Length: 1 Year

Grade Level(s): 11

Prerequisite: Biology 9 & Chemistry 10

Environmental science course will focus on understanding the interactions between earth's natural systems and the demands placed on them by the human population. This course examines the scientific principles behind natural phenomena and resource cycles, explores how we utilize these systems and our impact, and potential solutions for the resulting consequences of resource mismanagement and exploitation. The course includes elements of life science, physical science, and social science and focuses on breadth and interrelatedness of relevant current events. Concepts will be explored through inquiry-based laboratory exercises, environmental health assessment techniques, student presentations and projects.

ANATOMY 12

Credit: 1.0

Length: 1 Year

Grade Level(s): 12

Prerequisite: Biology 9 and Chemistry 10

This course is designed to focus on the detailed study of the human body. Students will demonstrate their understanding of the human body from the cellular level on throughout the organ systems. Emphasis will be placed on the structure and function of body structures and the ways these structures interact with each other in the human organism. Students will apply their knowledge through experimental laboratory activities.

MAS SOCIAL SCIENCES/ SPECIALS COURSES WORLD HISTORY

GRADE 10

Credit: 1.0

Length: 1 Year

Grade Level(s): 10 Prerequisite: N/A

This course will engage students in the history of our world. The main trend of the course will be how these events helped shape future events and the world's current state. There are four main scopes that students will use to analyze these events: through culture, economics, politics and religion. During the year, students will learn to take reliable notes, participate in group discussions and think and write independently. In addition, we will critically analyze various texts and events in order to discern the motives and repercussions of specific actions.

PSYCHOLOGY GRADE 11

Credit: 1.0

Length: 1 Year

Grade Level(s): 11 Prerequisite: N/A

This course examines behavior and mental processes. This concerns physical, social or psychological behavior that is observed both empirically and by other techniques. Examples of study may include history of psychology, sensation/perception, motivation/emotion, stress, learning, memory, language, states of consciousness, lifespan development, personality, psychological disorders, therapies, and socio-cultural dimensions of behavior. Theorists may include Freud, Jung, Rogers, Maslow, Piaget, Erickson, Pavlov and others.

Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. This course prepares students to understand their own behavior and the behavior of others.

COMPUTER STUDIES

COMPUTER SCIENCE 9

Credit: 1.0

Length: 1 Year

Grade Level(s): 9 Prerequisite: N/A

The computer science course is designed to help learners develop their interest in computational thinking and logic. It will give students the opportunity to explore a wide range of theoretical and practical components in Computer Science. Learners will develop an array of technical skills that will be applied to high level programming languages and computing solutions.

COMPUTER SCIENCE 10:

Credit: 1.0

Length: 1 Year

Grade Level(s): 10 Prerequisite: N/A

This course introduces students to the field of Robotics and stimulate their interests in science and engineering through the participation of the entire engineering design process. This course covers a variety of multidisciplinary topics necessary to understand the fundamentals of designing, building, and programming robots.

MAS ELECTIVE COURSES

GRADE 9 ELECTIVES

DEBATE & PERSUASIVE LEADERSHIP 9:

Credit: 1.0

Length: 1 Year

Grade Level(s): 9 Prerequisite: N/A

This high-energy course equips students with the tools to argue persuasively, think critically, and lead confidently. Through competitive debate formats, real-world simulations, and leadership labs, students will:

Master classic debate techniques (Lincoln-Douglas, Parliamentary, and Public Forum styles). Craft and deliver TED Talk-style persuasive speeches on current issues (e.g., social media regulation, AI ethics). Analyze rhetorical strategies in historical speeches, political campaigns, and advertising. Participate in mock trials, Model UN, or student-led town halls to practice diplomacy and quick thinking. Develop emotional intelligence to adapt arguments for diverse audiences and resolve conflicts

COMMUNICATION 9:

Credit: 0.5

Length: 1 Semester

Grade Level(s): 9 Prerequisite: N/A

This course develops essential skills in verbal, nonverbal, and written communication. Students will: Practice public speaking and active listening techniques. Analyze media messages (ads, news, social media) for bias and persuasion. Collaborate on presentations, debates, and interpersonal communication scenarios. Explore professional communication (résumés, interviews) and digital etiquette. Skills Emphasized: Critical thinking, articulation, audience adaptation.

FUNDAMENTALS OF ART 9

Credit: 0.5

Length: 1 Semester

Grade Level(s): 9 Prerequisite: N/A

This introductory course explores the basic elements and principles of visual art, including line, shape, color, texture, and composition. Through hands-on projects and guided practice, students will develop foundational skills in drawing, painting, and design, while learning to express ideas creatively and analyze works of art.

GRADE 10 ELECTIVES

Textile

Credit: 0.5

Length: 1 Year

Grade Level(s): 10 Prerequisite: N/A

This course in Textile Design introduces students to the creative and technical processes involved in designing patterns and surfaces for fabric. Students explore the expressive potential of textile media while examining the cultural and functional roles of fabric throughout history and in contemporary society.

ART THEORY 10

Credit: 0.5

Length: 1 Semester

Grade Level(s): 10

Prerequisite: N/A

This advanced painting and drawing course is provided for the second-year art student who wishes to improve his drawing and painting skills, watercolor techniques and ability to use color effectively. There will be some pen and ink and pencil work, pastels, markers, chalk, watercolor, tempera, acrylic painting, graphic design, and art contests/shows. Emphasis will be placed on portfolio preparation in a variety of expressions for a solid presentation.

INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP 10

Credit: 0.5

Length: 1 Semester

Grade Level(s): 10 Prerequisite: N/A

This course provides opportunities to learn and experience a variety of topics in the field of business. Students are exposed to various economies, their roles in our economy, entrepreneurship, marketing, managing financial and technological resources, and the use of social media. Course activities involve students in writing, investigating case studies, problem-solving, demonstrating, and reporting.

INTRODUCTION TO ENTREPRENEURSHIP 10

Credit: 1.0

Length: 1 Year

Grade Level(s): 10 Prerequisite: N/A

This introductory course is designed to give students a foundational understanding of entrepreneurship and the skills needed to turn ideas into opportunities. Students explore the characteristics of successful entrepreneurs, the process of developing and evaluating business ideas, and the basics of planning, marketing, and managing a small venture. Through hands-on activities, case studies, and collaborative projects, students learn how creativity, problem-solving, and innovation drive entrepreneurial success. The course also emphasizes ethical decision-making, financial awareness, and the role of entrepreneurship in the global economy.

GRADE 11 ELECTIVES**ECONOMICS GRADE 11**

Credit: 1.0

Length: 1 Year

Grade Level(s): 11 Prerequisite: N/A

This course is designed to teach students basic economic concepts. Students will be analyzing basic economic questions like “What does a country produce and why?” to “How does the UAE economy function?” Students will also learn the real-world functions of economics.

COMPUTER SCIENCE 11

Credit: 1.0

Length: 1 Year

Grade Level(s): 11 Prerequisite: N/A

The computer science course is designed to help learners develop their interest in computational thinking and logic. It will give students the opportunity to explore a wide range of theoretical and practical components in Computer Science. Learners will develop an array of technical skills that will be applied to high level programming languages and computing solutions.

ART 11

Credit: 1.0

Length: 1 Year

Grade Level(s): 11 Prerequisite: N/A

This course is designed for the student who desires further study in the fine arts field. Emphasis will be made on advanced techniques in the areas of drawing, painting, design, and composition. Portfolio preparation will be covered for students interested in pursuing jobs in the field/admittance to college art programs. Media to be covered: pencil, pen and ink, charcoal, watercolor, acrylic, pastel, tempera, scratchboard, air brush, and printmaking. There will also be an emphasis on contests, shows, and schools exhibits.

JOURNALISM 11

Credit: 1.0

Length: 1 Year

Grade Level(s): 11 Prerequisite: N/A

Journalism 11 is a beginner course that will introduce students to the fundamentals of writing news, feature, opinion, entertainment, and sports articles. Students will work together to brainstorm story ideas, write and peer edit articles. A group of select student editors proofread the articles and create the layout for each issue of the MAS magazine. This class requires students' commitment outside of regular school hours.

FRENCH 11

Credit: 1.0

Length: 1 Year

Grade Level(s): 11 Prerequisite: N/A

This course facilitates the exploration of the French speaking world. Students will enrich their own world by learning and using a new language and appreciating a new culture. Students will be immersed in the target language through various fun communicative techniques such as competitive games, interviews, surveys, role playing activities, video and computer-generated programs. The studies are conducted in a “real world” context. The listening, speaking, reading and writing skills acquired will help them develop a “global understanding” necessary to become an effective citizen of the twenty-first century.

GRADE 12 ELECTIVES

COMPUTER SCIENCE 12

Credit: 1.0

Length: 1 Year

Grade Level(s): 12 Prerequisite: N/A

The students will learn the development of useful computer programs or parts of programs that correctly solve a given problem and that are understandable, adaptable, and when appropriate, reusable. In the development, they will use analysis of algorithms, data structures, the study of standard algorithms and typical applications.

In addition, an understanding of the basic hardware and software components of computer systems and their use in the integral parts of the course.

JOURNALISM 12

Credit: 1.0

Length: 1 Year

Grade Level(s): 12 Prerequisite: N/A

In this course, students will work together to brainstorm story ideas, write and peer edit articles for the school magazine. Students will also participate in the publication of the school yearbook. In doing so, students will develop their writing, interviewing, business, and publication skills. This course may require students' commitment outside of regular school hours.

Course Goals:

- Students will improve their writing through writing multiple genres of journalism articles (such as news, features, and sports articles)
- Students will become familiar with the writing process and AP style/grammar
- Students will learn the essential elements of photography and page design
- Students will acquire business skills, including selling advertisements, conducting interviews, and acting in a professional manner
- Students will learn the steps of the publication process and meet publication deadlines
- Students will work as a part of a professional team

MUSIC 12

Credit: 1.0

Length: 1 Year

Grade Level(s): 12 Prerequisite: N/A

The purpose of this course is to enable students to develop basic technical skills on percussion instruments that leads to the culmination of high school performance. Emphasis will be placed on the development of skills in interpretation of notation and expressive markings, individual and ensemble performance and critical listening. This course may include after school and weekend activities.

BIOCHEMISTRY

Credit: 1.0

Length: 1 Year

Grade Level(s): 12

Prerequisite: Biology 9 and Chemistry 10

This course is designed to offer students with a deeper understanding of the chemical processes that underpin biological systems.

The course covers:

Introduction to Biochemistry: Overview of the structure and function of biomolecules including proteins, carbohydrates, lipids, and nucleic acids. It also covers enzyme Function and Kinetics: Examination of major metabolic pathways, including glycolysis, the citric acid cycle, and oxidative phosphorylation, and their regulation.

SOCIOLOGY

Credit: 1.0

Length: 1 Year

Grade Level(s): 12 Prerequisite: N/A

The course introduces students to the core concepts that sociologists use to explain human social behavior, including how sociologists use culture and social structure to view the social world. Students will learn how to deconstruct and evaluate culture and social structure through social institutions, individual roles and statuses, and the process of change, considering multiple levels of analysis—global, societal, local and individual. Students will also examine both culture and structure as human creations that carry on from generation to generation

CREATIVE DESIGN

Credit: 1.0

Length: 1 Year

Grade Level(s): 12 Prerequisite: N/A

Our Creative Design course is designed to ignite students' imagination and enhance their design skills through a comprehensive curriculum. The course covers fundamental principles of design, including color theory, typography, and layout. Students will explore various design tools and software, engage in hands-on projects, and learn to develop their unique artistic style. Key topics include graphic design, digital media, branding, and stage design. By the end of the course, students will have a robust portfolio showcasing their creative abilities, ready to take on real-world design challenges.