Al Bateen Scientific Private School

American Curriculum Description

We are an American curriculum school following the Common Core State Standards (CCSS) California framework for English Language Arts and Mathematics and the Next Generation Science Standards (NGSS) for Science. We also follow the Ministry of Education (MOE) curriculum for Arabic, Islamic Studies, Social Studies and Moral Education. The school is internationally accredited by Cognia previously AdvancED .

The school's curriculum offers a large breadth and depth of study with flexibility in learning pathways and addresses a variety of learning styles. It offers many opportunities for integrating the learning objectives from a variety of subjects, in a relevant and highly engaging manner. The school supports innovation and development, especially in relation to the ICT integration and the effective utilization of their subject knowledge in approaching real life issues and dilemma in a creative problem solving approach. The curriculum is effectively planned to ensure progression in all subjects and prepares students for success in their next level of education and future careers. It promotes higher-level thinking skills, literacy, numeracy, creativity, positive attitudes, strong ethics, self-management and adaptability. It also promotes the Arabic language and the national identity and enhance the development of 21st century skills, including collaboration, communication, analysis, synthesis, critical thinking, problem-solving, digital literacy, innovation and life skills.

High quality and various extracurricular activities across all grade levels including KG students to support student interests and provide opportunities for individual growth and leadership. The school carries out regular assessments using American Standardized tests, including the Measures of Academic Progress (MAP) test and other international assessments like PIRLS, TIMSS, PISA. This ensures that high standards of education are consistently maintained, and students are able to achieve competent results aligned to the standards.

Student Competency Framework (SCF) and My Identity links have been integrated into the curriculum maps and Lesson Plans. Students have very good choices and opportunities for learning experiences that encourage their talents, interest and aspirations.

High School American Diploma Offered Subjects

English

English 9 = 1 credit English –Duration 1 Year

Grade 9 English Literature and language arts is designed to develop students' English skills and to prepare them for the demanding courses they may take in Grade 10 and beyond. This course combines the study of both literary and non-literary texts taken from a range of sources. Students will develop their writing and speaking in a variety of genres with emphasis placed on academic writing, speaking and analytical skills. English 9 will maintain a suitable level of challenge to prepare students to continue into English 10 Advanced if that is deemed an appropriate choice.

English 10 - 1 credit –Duration 1 Year

English 10 develops students' key English skills, combining a core of literary study with strands of non-fiction analysis, vocabulary, and grammar. English 10 provides an engaging and supportive program that allows students to develop their abilities with guidance and structure. Emphasis is placed on readings from a wide range of text types and development of students' writing and speaking skills.

English 11 = 1 credit – Duration 1 Year

Students analyse literature and non-fiction, and learn to write effectively. Students may read novels, plays, short stories and poetry. Vocabulary skills will be developed as students explore words from their readings. Grammar instruction will be pursued in response to student writing. In addition to literature, music, video, advertisements, and illustrations will be used to develop media literacy skills. Critical thinking skills will be exercised and developed through the writing tasks described above and through class discussions in response to the selected readings.

English 12 = 1 credit –Duration 1 Year

In English 12 students analyze literature and nonfiction, and learn to write effectively in different forms. Students read texts from a variety of genres. Writing skills will be developed through a series of activities through vocabulary, routine composition of analytical and evaluative essays, large and small group discussions, grammar instruction, and the composition of a research paper

Humanities

World History I -Credit 1 – Duration 1 Year –Grade 12 Elective

In this course, students will study major civilizations of the ancient world, including those of the Egyptians, the Persians, the Greeks, and the Romans. They will explore their beliefs, traditions, famous leaders, and their lasting impacts on the world today. They will then explore the early history of Islam and the major Muslim Empires that stretched across the Middle East and Europe during the medieval period. Finally, students will explore the dramatic changes that struck Europe during the Dark Ages and the formation of England and France as two of Europe's most powerful nations.

students will also study the periods of rebirth and revolution in Europe, the Americas, and Egypt. They will explore the Renaissance, the rise of the nation-state in Europe, the French Revolution, the Enlightenment and the religious Reformation period, and the economic and political roots of the modern world. Additionally, students study the origins and consequences of the Industrial Revolution, the American Revolution and Civil War, 19th century political reform in Western Europe and the Ottoman Empire, and imperialism in Africa and Asia. Added to this , students explore the causes and consequences of the great military and economic events of the past century that have shaped the modern world, including World War I, the Great Depression, World War II, and the Cold War.

Sociology -Credit 1 – Duration 1 Year –Grade 12 Elective

Sociology is the study of society and human relationships. This course examines basic concepts, theories and methods of sociology, emphasizing the significance of self and culture. Topics include: An introduction (What is Sociology?); deviance and social control; gender; cultural diversity; the adolescent in society; economics and politics; collective behavior and social movements; and the mass media.

Business1 credit-Duration 1 Year –Grade 11 Elective Subject

This an introductory course is designed to help students develop critical thinking skills, though the understanding, application and analysis of fundamental business concepts. Students will be able to develop an awareness of the nature and significance of innovation, to develop an understanding of the way changes in the business environment influence business behavior and to promote knowledge and appreciation of the working world. The course also provides an introduction to the theory and practice of marketing and explains the core functions of marketing. The program is correlated to the latest national marketing standards, incorporates academic content and research-based reading strategies. The course also tackles the growth of online advertising and strategies, decline of print newspapers, social media marketing strategies, privacy and identity protection, and web analytics.

Economics -1 Credit-Duration 1 Year –Grade 11 Elective

Macroeconomics is the study of group decision-making within the American economy, focusing on the aggregate actions of consumers and firms and the role of government fiscal and monetary policies. It attempts to measure economy-wide phenomena and the effect of government actions in realizing national economic goals. The course is delivered through a combination of lecture presentation, class discussion, and directed work, requiring mature study and note-taking skills of students. Much of the practical work designed to consolidate new concepts and theories is done outside the class as homework. Homework consists of extensive reading in the text and supplemental reading material, essay writing, data response questions, and numerical and graphical worksheets.

Mathematics

Math Integrated Math I (Algebra and Geometry) 1 Credit –Duration 1 Year-Grade 9

The course expands on the concepts studied in both algebra and geometry. Course topics include quadrilaterals, polygons, volumes, systems of equations, similar triangles, matrices, transformations, polynomials, quadratic functions, right triangle trigonometry. Topics from two and three dimensional. Geometry and trigonometry is integrated into this curriculum. Introductory instruction in the area of statistics and probability is provided also. Investigate linear and quadratic relationships, including comparing and contrasting different algebraic models

Algebra II -1 Credit –Duration 1 Year-Grade 10

The course includes absolute value inequalities, systems of equations in three variables, inverse matrices and Cramer's rule, quadratic inequalities, the remainder and factor theorem, exponential and logarithmic equations, rational functions, radical functions, conic sections, arithmetic and geometric sequences, trigonometric graphs and equations.

Pre- Calculus -1 Credit-Duration 1 Year-Grade 11

This course provides the mathematical background needed for Calculus. Topics will include: review of basic terminology; techniques for finding algebraic solutions for various types of equations and inequalities; polynomial and rational functions; exponential and logarithmic functions; and trigonometric functions and equations. It will also provide the students with math skills for future success in college mathematics and standardized tests.

Calculus -1 Credit –Duration 1 Year –Grade 12

This course provides a preliminary review of pre-calculus, followed by limits and continuity. Topics include differentiation application of differentiation, integration and application on integration. This course is essential for students planning to apply Engineering and Computer Science Faculties.

Sciences

Biology -4 Credits –Duration 4 Years – Grades 9-12

Biology includes the study of cellular structure and function, genetics, evolution, ecology, along with plant and human physiology. Through inquiry of activities and laboratory, students develop an understanding of essential biological principles. In the laboratory, an emphasis is placed on recognition of variables, data collection and processing, analysis and evaluation. This course introduces an in-depth view of the structure, organization, physiology and biochemistry of prokaryotic and eukaryotic cells, and chromosomal basis of heredity. Additionally, the course covers the study of the following human biological systems: tissues, urinary, nervous, muscular, circulatory, respiratory and digestive.

Chemistry -4 Credits-Duration 4 Years –Grades 9-12

In chemistry students acquire strong subject terminology and vocabulary and gain a strong understanding of key scientific principles and topics. The basic ideas that will be covered are: The Science of Chemistry, Matter and Energy, Atoms and Moles, The Periodic Table, Ions and Ionic Compounds, Covalent Compounds, The Mole and Chemical Composition, Chemical Equations and Reactions, Stoichiometry, Causes of Change, States of Matter and Intermolecular Forces, Gases, Solutions, Chemical Equilibrium, Acids and Bases, Reaction Rates, Oxidation, Reduction, Electrochemistry, Carbon and Organic Compounds, and Biological Chemistry. The course allows students to develop traditional practical skills and techniques and to increase facility in the use of mathematics, which is the language of science. A single internal assessment is undertaken in the form of a ten-hour individual investigation.

Physics-4 Credits-Duration 4 Years –Grades 9-12

The physics syllabus is designed to cover the following areas: Measuring motion in one dimension, Forces, Pressure, Machines, Motion, some properties of matter, Heat and Matter, Static electrons, Electric circuits, Cells and Batteries, Magnetism and Electromagnetism, Electronics, describing atoms, Radioactivity, Waves and wave phenomena.

Nutrition -1 Credit –Duration 1 Year (Grade 10- Elective Subject)

Basic facts and principles of human nutrition are presented. Study includes the physiological and psychological factors of food intake and utilization with emphasis on nutrition education for dietary improvements of groups and individuals. Emphasis is placed on the science of nutrition, the study of nutrients and of their ingestion, digestion, absorption, transport, metabolism, interaction, storage and excretion. Food group plans, the Dietary Guidelines, Food Exchange System, Recommended Dietary Allowances and other standards are reviewed to serve as a foundation for food selection. The curriculum is tailored to meet the emotional, physical and social needs of adolescents, teaching them the skills to be thoughtful decision-makers. Topics include drugs, alcohol, tobacco and relationships. The goal of the Health course is to empower each student to be able to make healthy, safe and knowledgeable choices with regards to lifestyle and their bodies. Classes are often discussion based with students sharing their own points of view; this is combined with activities and multimedia.

Technology –ICT -1 credit hour per year –Grades 9, 10, 11, 12

Grade 9 ICT

Students learn the fundamental ideas of the science of computing. Lectures and hand-on assignments cover a wide variety of topics such as:

- Hardware and software organization
- How to use the internet
- MAC and IP address • Web designing
- Design and a plan for program (flowcharts and pseudo code)
- Introduction to programming language.

Grade 10 ICT

In this course students learn how to design, write compile and execute Java applications. They will gain experience with Java's object oriented features and basic programming constructs. In order to implement their learning, students will complete three independently designed projects of increasing complexity. Previous programming experience is not assumed, but a keen interest in computing and a strong background in Algebra is helpful.

Grade 11 and 12

Introduction to Programming, Web Designing and Networking Students are introduced to a basic principles and concepts of object- oriented programming language using Python programming language, web designing and networking. The Python unit will enable students to:

- Create a real-life program and a whole system using a functions and models.
- Test and debug their systems and create a testing report.
- Create a database and link it to their system using Python and Microsoft access.
- Create a final project; school system with its login verifications and database linked to it with authorized login username and password.

The web designing unit will enable students to:

- Create a website using HTML codes.
- Use all the tags to add pictures, links and paragraphs.
- Change all the font styling through tags.
- Create their own online e-shopping website.

The networking unit will enable students to:

- Understand and describe the devices and services used to support communications in data networks and the internet.
- Understand and describe the role of protocol layers in data networks.
- Understand and describe the importance of addressing and naming school schemes at various layers of data networks.
- Explain fundamentals of Ethernet concepts such as media, services and operations.
- Build a simple Ethernet network using routers and switches.

Arabic 1 Credit / Religion ½ Credit each year –Grades 9, 10, 11, 12

Arabic & Religion 9, 10, 11, 12 The primary objective of this course is to enable students to use correctly the structures, lexicon, composition and poetry found in level appropriate texts. Another equally important objective is to reinforce the linguistic competence of the students through a systematic study of selected and level appropriate literary and cultural texts: short stories, plays, poetry, and newspaper articles.

Physical Education ½ Credit every year – Grades 9, 10, 11, 12

The purpose of the physical education program is to prepare students for the challenges of the 21st century by providing opportunities to attain the skills and knowledge to be physically active as part of a healthy lifestyle. Students will become competent in various movement forms, motor skills and social interaction skills in addition to learning to enjoy physical activity. Each student in Physical Education is assessed across three broad learning standards. Head is the ability for the child to reflect and apply their knowledge with the aim to improve. Hands is the development of the physical skills and how they are performed. Heart focuses on teamwork and character within the physical activity. You will enjoy this class if you are willingly active and eager to participate in all types of movement forms. You will succeed in this class if you put forth consistent effort and enjoy the benefits of leading an active lifestyle.

Art – Grade 9 – ½ Credit

This course includes the following:

- Drawing and Composition: An introduction to expressive drawing within a variety of media such as pencil shading, oil pastel and pencil colors. Students also learn the organization of structural relationships in two-dimensional space.
- Painting: An introduction to the painting materials and techniques of the medium along with various subjective problems involving form, color and composition.
- Design: The study of the basic design studio problems are investigated – art forms (such as zentangle, abstract, doodling and patterns), color, balance, pattern and texture.
- Life Drawing: Drawing and composition from the structure, proportions and movement of the human model and expressive exercises in a variety of media.
- Work on personal portfolio preparation, if desired. Additional focus will be on figurative drawings, human body, anatomy art, and portraits in different media.

Transcript Sample :

Al Bateen Scientific Private School
Fully Accredited By **AdvancED** USA

Name :- **الاسم**:
Esis No./Reg.No :-
Date of Birth :- **Date Of Joining** :-
Sex :- **Graduated** :- June 2021
Nationality :-

Grade	10 2018/2019	Final Mark	Credits	11 2019/2020	Final Mark	Credits	12 2020/2021	Final Mark	Credits
English Language	English		1	English		1	English		1
Social Sciences				Business		1	Sociology		1
Mathematics	Math		1	Math		1	Math		1
Science	Biology		1	Biology		1	Biology		1
	Chemistry		1	Chemistry		1	Chemistry		1
	Physics		1	Physics		1	Physics		1
Arabic - First Language	Arabic		1	Arabic		1	Arabic		1
Islamic Education	Islamic		0.5	Islamic		0.5	Islamic		0.5
Information & Communication Technology	ICT		1	ICT		1	ICT		1
Activities	HPE		0.5	HPE		0.5	HPE		0.5
Electives	Nutrition		1						
Year Credits	9			9			9		
% Average	0.0%			0.0%			0.0%		
GPA									

School Principal :- **Total Credits** :- **27**
Signature :- **Final Average** :- 0.0%
Cumulative GPA :-

Grading Scale

Percent Grade	97-100	93-96	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62
Letter Grade	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-
GPA	4.0	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.7