



High School Academic Offerings 2026–2027

In addition to Arabic, Islamic Studies, English, UAE Social, Moral & Cultural Studies, and Physical Education, DMES offers the following high school courses and subject options.

Grades 9–12 Sciences, Mathematics, Electives			
Grade	Sciences	Mathematics	Electives / AP as Electives Offerings
Grade 9	Biology	Integrated Math II	Physical Computing Sustainability App Design
Grade 10	Chemistry	Geometry	Programming Introduction to Business Pre-AP Biology Introduction to Psychology Graphic Design
Grade 11	Physics	Algebra 2 Precalculus	Psychology 1 International Business AP Computer Science Principles French 1 Anatomy & Physiology Cyber Security Art 1 App Design AP Biology
Grade 12	Advanced Biology Advanced Chemistry Advanced Physics AP Physics C: Mechanics	Calculus Statistics	Artificial Intelligence Art 2 AP Calculus AB Psychology 2 Police Law Creative Technology AP Biology French 2 Economics

Note: The mentioned AP courses are included within the elective offerings; any repeated subjects across blocks are listed only once.

APPROVED
MS
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High School Elective Course Descriptions 2026–2027

Grades 9–12 | Academic Year 2026–2027

This document presents the high school elective course descriptions for Grades 9–12 for the 2026–2027 academic year. It is intended to support academic planning, student and parent guidance, and school implementation. The descriptions summarize the focus, learning emphasis, and progression of the listed courses.

Grade 9 – Single Block Subjects

Course	Course Description
App Design – Grade 9	App Design introduces students to the principles of designing mobile applications. Topics may include, but are not limited to, user experience, interface design, prototyping, and basic coding. Students develop creativity, teamwork, and problem-solving skills. The course encourages responsible digital citizenship and innovation. It supports the UAE's vision for technology and entrepreneurship.
Physical Computing – Grade 9	Physical Computing introduces students to the interaction between hardware, software, and the real world. Topics may include, but are not limited to, sensors, circuits, coding, and interactive design. Students build practical projects that develop creativity, logic, and teamwork. The course encourages innovation and responsible use of technology. It prepares learners for further study in engineering and computer science.
Sustainability – Grade 9	Sustainability explores how we protect natural resources for future generations. Topics may include, but are not limited to, renewable energy, environmental responsibility, conservation, and sustainable living. Students connect learning to the UAE's national sustainability goals and Islamic values of stewardship. The course encourages positive action within the community. It prepares learners to become responsible global citizens.

Grade 10 – Single Block Subjects

Course	Course Description
Graphic Design – Grade 10	Graphic Design introduces students to visual communication through layout, colour, and typography. Topics may include, but are not limited to, branding, digital design, print media, and creative software. Students learn to design with purpose and respect for cultural identity. The course develops creativity, attention to detail, and digital skills. It prepares learners for careers in the UAE's growing creative industries.
Programming – Grade 10	Programming introduces students to the fundamentals of coding and computational thinking. Topics may include, but are not limited to, algorithms, problem-solving, logic, and software development. Students build practical projects that develop creativity, patience, and teamwork. The course encourages responsible and innovative use of technology. It prepares learners for further study in computer science and related fields.
Introduction to Business – Grade 10	Introduction to Business introduces students to the world of commerce, enterprise, and management. Topics may include, but are not limited to, marketing, finance, entrepreneurship, and business ethics. Students develop practical skills and an understanding of how businesses operate. The course encourages initiative, responsibility, and teamwork. It supports the UAE's vision for a diversified and sustainable economy.
Introduction to Psychology – Grade 10	Introduction to Psychology introduces students to the study of human behaviour and mental processes. Topics may include, but are not limited to, emotions, learning, personality, and social interaction. Students develop self-awareness, empathy, and respect for others. The course promotes wellbeing and responsible decision-making. It prepares learners for further study in social and health sciences.
Pre-AP Biology – Grade 10	Pre-AP Biology introduces students to the foundations of life science and scientific inquiry. Topics may include, but are not limited to, cells, genetics, ecosystems, and laboratory skills. Students develop curiosity, observation, and analytical thinking. The course promotes respect for creation and environmental responsibility. It prepares learners for advanced study in biology and health sciences.

Grade 11 – Block/Elective 1 & 2 Subjects

Course	Course Description
Physical: Anatomy & Physiology – Grade 11	Anatomy & Physiology introduces students to the structure and function of the human body. Topics may include, but are not limited to, body systems, health, movement, and wellbeing. Students develop scientific inquiry, observation, and analytical skills. The course promotes respect for the human body, healthy living, and personal responsibility. It prepares learners for further study in health and sports science.
Psychology 1 – Grade 11	Psychology 1 introduces students to the study of human behaviour, thinking, and emotion. Topics may include, but are not limited to, learning, memory, personality, and social relationships. Students develop self-awareness, empathy, and ethical understanding. The course promotes wellbeing and responsibility aligned with UAE community values. It prepares learners for further study in social and health sciences.
French 1 – Grade 11	French 1 introduces students to the French language and Francophone cultures. Topics may include, but are not limited to, grammar, vocabulary, conversation, and cultural awareness. Students build confidence in listening, speaking, reading, and writing. The course encourages global communication, tolerance, and multilingualism. It supports openness to the world while respecting UAE values and identity.
AP Computer Science Principles – Grade 11	AP Computer Science Principles introduces students to the foundations of computing and digital innovation. Topics may include, but are not limited to, programming, data, the internet, cybersecurity, and the societal impact of technology. Students develop creativity, problem-solving, and computational thinking. The course encourages responsible and ethical use of technology. It prepares learners for further study in computer science and related fields.
International Business – Grade 11	International Business introduces students to commerce, trade, and enterprise in a global context. Topics may include, but are not limited to, marketing, finance, economics, ethics, and cross-cultural communication.

	Students develop practical business skills and global awareness. The course encourages initiative, responsibility, and teamwork. It supports the UAE's vision for a diversified and sustainable economy.
Cyber Security – Grade 11	Cyber Security introduces students to the principles of protecting digital systems, networks, and data. Topics may include, but are not limited to, online safety, ethical hacking, encryption, and risk management. Students develop problem-solving, responsibility, and digital citizenship. The course encourages ethical and safe use of technology. It prepares learners for further study and careers in a growing field.
App Design – Grade 11	App Design introduces students to the principles of designing and developing mobile applications. Topics may include, but are not limited to, user experience, interface design, prototyping, and basic coding. Students develop creativity, teamwork, and problem-solving skills. The course encourages responsible digital citizenship and innovation. It supports the UAE's vision for technology and entrepreneurship.
Art 1 – Grade 11	Art 1 develops students' creative expression through drawing, painting, and visual composition. Topics may include, but are not limited to, design principles, colour, mixed media, and cultural art. Students draw inspiration from Emirati heritage and global traditions. The course nurtures creativity, patience, and appreciation of beauty. It builds confidence and originality in a respectful and inspiring environment.

Grade 12 – Block/Elective 1 & 2 Subjects

Course	Course Description
Art 2 – Grade 12	Art 2 is a multi-unit course designed to suit a wide range of student interests and talents. Units may include, but are not limited to, drawing, painting, design, digital art, printmaking, and mixed media. Students draw inspiration from Emirati heritage and global artistic traditions while developing creativity, self-expression, and craftsmanship. The course fosters respect for cultural identity and appreciation of beauty in a supportive and modest environment. It prepares learners for further study and lifelong engagement with the visual arts.
Artificial Intelligence – Grade 12	Artificial Intelligence introduces students to the fundamentals of AI, including machine learning, data, and intelligent systems. Topics may include, but are not limited to, problem-solving, automation, ethics, and real-world applications. The course encourages innovation and responsible use of technology in line with the UAE's knowledge-based economy. Students develop critical thinking, creativity, and digital citizenship. It prepares learners for future study and careers in a rapidly advancing field.
Police Law – Grade 12	Police Law introduces students to the principles of justice, law enforcement, and civic duty within the framework of UAE law. Topics may include, but are not limited to, constitutional rights, legal procedures, evidence handling, and ethical policing. Students explore real-world case studies and the role of law in maintaining safety, order, and respect for authority. The course builds character, integrity, and a strong sense of national responsibility. It supports critical thinking and civic awareness.
Psychology 2 – Grade 12	Psychology 2 introduces students to human behaviour, thinking, and emotion in a respectful and ethical manner. Topics may include, but are not limited to, mental health, learning, memory, social relationships, and wellbeing. Students develop self-awareness, empathy, and healthy coping strategies. The course promotes responsibility and community values aligned with UAE society. It prepares learners for further study in social and health sciences.

Economics – Grade 12	Economics introduces students to how individuals, businesses, and governments manage resources and make decisions. Topics may include, but are not limited to, markets, trade, finance, sustainability, and economic policy. Students learn to think critically about local and global economic issues affecting the UAE. The course builds financial literacy and responsible citizenship. It prepares learners for university study and informed participation in the economy.
AP Biology – Grade 12	AP Biology explores the science of life, from cells and genetics to ecosystems and evolution. Topics may include, but are not limited to, molecular biology, physiology, ecology, and scientific inquiry. Students develop laboratory, analytical, and research skills through hands-on investigations. The course promotes curiosity, respect for creation, and responsible stewardship of the environment. It prepares students for university-level study in science and health fields.
AP Calculus – Grade 12	AP Calculus develops advanced mathematical reasoning through limits, derivatives, and integrals. Topics may include, but are not limited to, functions, rates of change, optimisation, and real-world modelling. Students apply calculus to problems in science, engineering, and economics. The course strengthens logic, precision, and perseverance. It prepares learners for university study and future contributions to the UAE's progress.
French 2 – Grade 12	French 2 builds students' listening, speaking, reading, and writing skills in the French language. Topics may include, but are not limited to, grammar, vocabulary, conversation, culture, and Francophone studies. Students develop confidence in real-life communication and written expression. The course encourages global awareness, tolerance, and multilingualism. It supports openness to the world while respecting UAE values and identity.