ENGLISH Reading, writing, and spelling skills are a cornerstone to a student’s education. Aldar Academy takes a practical approach to English by studying all areas of language arts at every grade level. We focus on grammar, punctuation, and general reading and writing skills. In addition, students are given a broad exposure to literature, both classic and contemporary in the form of short stories, novels, and poetry.

English 9 A survey of literature, combined with instruction on grammar, composition, and vocabulary. English 9 is generally taken in ninth grade.

2 semesters – 10 credits

English 10 A survey of literature, poetry, plays, and prose combined with instruction on grammar, composition, and vocabulary. English 10 is generally taken in tenth grade.

2 semesters – 10 credits

American Literature A survey of American literature, poetry, plays and prose designed to encourage more specific knowledge of literature, and to give instruction on the composition of essays as well as creative writing. American Literature is generally taken in eleventh grade.

2 semesters – 10 credits

English Literature A Course designed to make students familiar with important English literary works while reinforcing writing skills through essays and creative writing. English Literature is generally taken in twelfth grade.

2 semesters – 10 credits

SOCIAL STUDIES

World History An in depth course beginning with early man and continuing to modern times and current events. This is a comparative study centering on Western, Asian and African civilizations. This course teaches the unique advancements and contributions made by these societies. The economic and political problems, which have shaped our world, are studied from their historical perspective. Map study, vocabulary lists, research projects, practical application, and essay writing are all emphasized in this class.

2 semesters – 10 credits

American History A comprehensive study of American history, beginning with European exploration and continuing to present day America. This course involves in-depth questioning and answering, general essay writing, vocabulary expansion, map skills, and research projects.

2 semesters – 10 credits

Government (Civics) A course which helps prepare seniors for college level courses. Practical application, vocabulary expansion, and general essay writing emphasized in this course. This subject matter is an important follow-up to the previous study of American History. The course concentrates on the need and basis for government, the three major branches of U.S. government and their interrelationships, constitutional law, and comparative government systems.

2 semesters – 10 credits

SCIENCE

General Science General Science emphasizes scientific methods and procedures, while covering general units devoted to basic physics, geology, statistics, and environmental science. General Science is generally taken in ninth grade.

2 semesters – 10 credits

Biology This is an introductory course in biological science, which covers the basic theories of modern biology, cell theory, genetics, and evolution. The physiology of the five kingdoms of organisms is covered with special emphasis on human physiology. Ecology is also included and enhanced using real world models whenever available.

2 semesters – 10 credits

Chemistry This course begins with an examination of science and chemistry and the application of scientific procedure. The nature and properties of atoms are explored, leading to an explanation of how these affect chemical bonds and molecular shape. Finally, these principals are used to examine the dynamics of chemical reactions. A firm grasp on general and/or advanced math principles (Algebra 1 or above) for this course is highly recommended, but concurrent enrollment in Algebra 1 can be substituted on a case-by-case basis.

2 semesters – 10 credits

Introduction to Physics This course approaches physics with the intent of imparting an understanding of the basic concepts involved in physics, rather than placing heavy emphasis on the mathematics involved. Mechanics, matter, heat, sound, electricity, magnetism, light, and relativity are covered. A firm grasp on general and/or advanced math principles (Algebra 1 or above) for this course is highly recommended, but concurrent enrollment in Algebra 1 can be substituted on a case-by-case basis. The course is also used to introduce students to college level courses.

2 semesters – 10 credits

Environmental (Physical) Science Using real-world case studies, current data, and a wide range of inquiry activities, Environmental Science is a college prep class that puts the world in context by empowering students to take an active role in their learning — and the world they live in. Students explore the ever-changing environment – and the impact that ecology, humans, the earth’s resources, and sustainable energy has on the past, present, and especially the future.

2 Semesters – 10 credits

MATHEMATHICS

Basic Mathematics This course is designed to review and reinforce the basic operations of mathematics, as well as to give a brief introduction to algebra and geometry and offers techniques for the solution of word problems.

2 semesters – 10 credits

Pre-Algebra Pre-Algebra starts with a review of basic mathematics and number theory, then moves to equations, formulas, and graphs. In addition, students cover units on simple geometry and introductory statistics and probability.

2 semesters – 10 credits

Algebra 1 This course covers the concepts and operations involving positive and negative numbers. It teaches the student to solve linear equations, systems of two variables, simple equations and rational expressions.

2 semesters – 10 credits

Geometry This course introduces students to the basic postulates and theorems of geometry. The use of formal mathematical proofs is taught and is used to study triangles polygons, area, circles and volumes of solids.

2 semesters – 10 credits

Algebra 2 This course introduces students to functional notation, advanced equations, systems of equations, the use of matrices, complex numbers, and statistics. Algebra 2 is generally taken in the eleventh grade for those who wish to pursue a technically related field and is recommended for all students planning to attend college.

2 semesters – 10 credits

GENERAL COURSES

Spanish 1 This course is designed for instruction in speaking, reading, and writing Spanish. Grammar, pronunciation and culture are stressed. Spanish 1 is generally taken in eleventh grade.

2 semesters – 10 credits

Spanish 2 An in-depth continuation of Spanish 1, this course is generally taken in the twelfth grade.

2 semesters – 10 credits

Physical Education Soccer, basketball, flag football, ultimate Frisbee and are offered. Two years of Physical Education are required for graduation.

2 semesters – 10 credits

Journalism A course on how to publish a school newspaper. (Any grade level)

1 semester – 5 credits

Art 1 This is a course designed to give an opportunity to students with specific art talent; portraits, painting, drawing and watercolor. (Any grade level)

2 semesters – 10 credits

Art 2 This is a course designed to give an opportunity to students with advanced art talent in; portraits, painting, mural work, drawing, and watercolor. (Any grade level)

2 semesters – 10 credits

Health A course designed to cover all the basics of health and healthcare; anatomy and physiology, dental care, hygiene and nutrition.

1/2 semester – 2.5 credits

Survey of Film This course is designed to show the difference between a movie as entertainment and a film as a work of art. A wide variety of films, ranging from classics to contemporary drama and comedy are shown. Analytical discussions and reports are required following each film.

1 semester – 5 credits

Career Education Career education is a course that enables students to:

Examine a variety of career opportunities and professions

Clarify the students values, aptitudes and professional interests

Establish contact with their college interest

Prepare for college entrance exams

Become familiar with a changing job market

Research paper writing, guest speakers from various professions, values clarification, aptitude testing, letter writing to colleges, submitting job applications, simulated interviewing, vocabulary studies and testing, resume writing and practice college entrance exams are all used to achieve the course objectives.

1 semester – 5 credits

SOCIAL SCIENCES This course is a multidisciplinary approach to researching human societies. It exposes students to seven important fields within the social sciences: Psychology, Linguistics, Anthropology, Sociology, Economics, Law/Political Science, and Education. In addition to covering basic content and concepts within each of these fields, the course emphasizes the various approaches and research methodologies used in each field to understand human behavior. The course is designed primarily to introduce students to a few of the disciplines they will discover in college and prepare them for those disciplines through developing the ability to conduct research and think critically about society.

2 semesters – 10 credits