

Pu`ukuumu School 9th Grade Course Catalog

Math

Algebra I- Mastery Course (1500) **1 credit** Year Course

Algebra 1 introduces basic algebraic skills in a logical order, including relations, functions, graphing, systems of equations, radicals, factoring polynomials, rational equations, probability and statistics, and quadratic functions. It emphasizes practical methods of solving first- and second-degree equations and inequalities.

Geometry -(Prerequisite: Algebra I) (1501) **1 credit** Year Course

The Geometry course includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. Topics include logic and proof, parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, trigonometry, and analytic geometry. Emphasis will be placed on developing critical thinking skills as they relate to logical reasoning and argument. Students will be required to use different technological tools and manipulatives to discover and explain much of the course content.

Science

Physical Science (1600) **1 credit** Year Course

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. Students develop skill in measuring, solving problems, using some laboratory apparatus, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with hands-on investigations and virtual laboratory experiences.

Social Studies

World History (1700) **1 credit** Year Course

In this survey of world history from prehistoric to modern times, students focus on the key developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history.

English

English I (1800) **1 credit** Year Course

English I focuses on students' oral skills through oral interpretation of literature, formal speech assignments, and discussions of literature using the shared inquiry method. The curriculum for ninth grade includes poetry, essays, novels, drama, and memoirs. Students learn various rhetorical modes of writing, including description, narration, illustration, cause-effect, compare-contrast, definition, and literary analysis. Students practice and assess oral communication skills through digital recordings and peer feedback as well as teacher evaluation.

World Language

Spanish I (1900) **1 credit** Year Course

This first year Spanish college preparatory course provides students the opportunity to learn to speak, listen, read and write in the target language in order to develop basic language skills and knowledge needed to be successful if further study of Spanish is desired. Students are introduced to the five goals for foreign language instruction: communication, cultures, connections, comparisons, and communities. These goals are emphasized throughout the course as students learn basic vocabulary related to everyday needs and activities as well as grammatical forms and functions.

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Physical Education

P.E. Grade 9 (2000) Semester Course

.5 credit

This course provides the foundation for lifelong physical activity. Students develop proficient movement skills in each area of physical education; they expand their capabilities for independent learning; and they examine practices that allow for sound decision making to enhance successful participation in movement skills. This course includes aquatics, dance, individual and dual sports.

Nature Connection

Nature Studies Grade 9 (2100) Semester Course

.5 credit

High school nature connection offerings emphasize a deeper understanding of nature connection practices, awareness exercises, and nature studies from earth based cultures including: wilderness survival skills, plant identification, natural movement, natural history and nature drawing and journaling. Instruction includes a mix of projects, hands-on activities, media presentations, supplementary readings, and field trips.

Fine Art

Art I (2200) Semester Course

.5 credit

This course is an introduction to design and composition; students use a variety of art media such as pencil, charcoal, conte crayon, pen and ink, tempera, watercolor, and acrylic. Introductory material covers theory of line, color, texture, the elements of design, and the principles of composition. Student projects include drawing, painting, printmaking, and design. Various schools of art, styles, and artists, past and present, are discussed. Students are encouraged to exercise self-expression in their art. Students will learn the relationship of drawing and painting to other art forms and receive an overview of careers in art and related fields. Students will develop critical assessment skills by applying what they learn to self and peer evaluation of their art projects.

Health

Health (2200) Semester Course

.5 credit

This course provides students with information that will help them live a more healthy and productive life. The emphasis is on making healthy personal decisions and in getting the information needed to make those choices. The course addresses both mental and physical health. Students learn about nutrition, including food guidelines and types of food; eating disorders are also covered. Students learn about first aid and CPR, substance abuse, and human sexuality. The course also covers consumer health resources, including government resources, nonprofit resources, and health insurance. Students learn how technology is influencing health care, and they examine the benefits of frequent physical exercise.

Electives

Elective 1 Semester Course

.5 credit

Electives will be offered in each semester for ninth grade. The elective choices will be selected based on student interest and teacher availability.

Elective 2 Semester Course

.5 credit

Electives will be offered in each semester for ninth grade. The elective choices will be selected based on student interest and teacher availability.

** The Pu'ukumu School reserves the right to adjust or modify this outline based on various limiting or educational factors.*

