

Summit High School

Course Catalog 2017-2018

Summit High School 2017-2018 Course Catalog
English Language Arts

Course Title: English 9

.5 - 1.0 ELA credit

Prerequisite: none

Course Description:

English 9 is a course based on the Common Core Standards with progressive work on reading, writing, speaking, and listening. Students are exposed to all genres of literature, working together to critically analyze both fiction and nonfiction. Students' writing focuses on narrative, creative writing and poetry, response to literature, compare and contrast, and beginning phases of the research process.

Course Title: English 10

.5 - 1.0 ELA credit

Prerequisite: English 9

Course Description:

English 10 is a course based on the Common Core Standards and utilizes mainly American Literature. Students work together to critically analyze and respond to important American fiction and nonfiction while improving skills in language development and literary devices. Students' writing focuses more deeply on narrative, response to literature, and expanded phases of the research process.

Course Title: English 11

.5 - 1.0 ELA credit

Prerequisite: English 9 and 10

Course Description:

English 11 is a course based on the Common Core Standards and continues to develop success in reading, writing, speaking, and listening. Readings expand to include some British and Multicultural works. Writings focus on further development of narrative essays, persuasive essays, response to literature essays, and continued phases of research. Students work to hone essential skills to be successful on required district, state, and national tests.

Course Title: English 12

.5 - 1.0 ELA credit

Prerequisite: English 9, 10, 11

Course Description:

English 12 is a course based on the Common Core Standards, forming solid senior level abilities in reading, writing, speaking, and listening. Student readings include all genres and a more in-depth exploration of longer fiction and nonfiction. The senior portfolio includes resumes, cover letters, college essays, technical writing, a letter to the editor, and comprehensive research work.

Summit High School 2017-2018 Course Catalog
Mathematics

Course Title: Algebra 1A

.5 - 1.0 math credit

Prerequisite: Pre-algebra

Course Description:

This is an introductory Algebra course. Topics include: Problem Solving, Variables and Proportions, Data and Graphs, and Systems of Equations. Students will discover algebraic principles through engaging in team activities designed to promote true understanding of mathematical principles. The textbook is *Algebra Connections (CPM)*. Chapters 1-6.

Course Title: Algebra 1B

.5 - 1.0 math credit

Prerequisite: Algebra 1A

Course Description:

This is the second course in the Algebra 1 series. Topics include: Linear Relationships, Quadratics, Inequalities, and Functions. Students will discover algebraic principles through engaging in team activities designed to promote true understanding of mathematical principles.

Course Title: Geometry

.5 - 1.0 math credit

Prerequisite: Algebra 1A

Course Description:

The study of Geometry helps maintain algebra skills while students learn size and shape relationships in two-dimensional and three-dimensional space. Students will also develop the skill of logical persuasion and continue to use scientific calculators. There is an emphasis on applying concepts to solving real world problems.

Course Title: Algebra II

.5 - 1.0 math credit

Prerequisite: Algebra 1A, 1B, and Geometry

Course Description:

Algebra 2 is an entrance requirement for many universities. Success in Algebra is a recognized gateway to many varied career opportunities! In Algebra 2, students will use group investigations, graphing calculators, and reasoning skills to explore mathematical concepts. Topics include: functions, sequences, exponential functions, transformations, logarithmic, trigonometric and polynomial functions and probability.

Course Title: Business Math

.5 - 1.0 math credit

Prerequisite: Algebra 1A, 1B, Geometry

Course Description:

This applied math course focuses on real-world business problems. Students will calculate percentage, establish retail prices, calculate payroll, calculate simple and compound interest, evaluate investment opportunities, and learn to read and create graphs and charts.

Summit High School 2017-2018 Course Catalog
Science

Course Title: Advanced Earth Science

.5 - 1.0 science credit

Prerequisite – None

Course Description: This course allows students to explore a variety of topics including the fundamentals of geology, geologic time and fossils, Earth processes, oceanography, atmospheric science and astronomy. Much of the class content is project based, and students will perform inquiry based experiments and investigations in groups and as individuals.

Course Title: Conceptual Biology

.5 - 1.0 science credit

Prerequisite – None

Course Description: This class investigates concepts of biological sciences including: cell structure and function, cell transport mechanisms, the fundamentals of genetics and heredity, and the process of evolution through natural selection. Students will have the opportunity for independent research on multiple topics including genetic disorders and examples of evolutionary adaptations.

Course Title: Physical Science

.5 - 1.0 science credit

Prerequisite – None

Course Description: This class is based in the fundamentals of both physics and chemistry, with a semester devoted to each subject area. During the first semester (physics), students will explore the concepts of forces and motion, experimental design, magnetism, electricity, Conservation of energy and momentum, and gravitation. During the second semester (chemistry), students will explore the fundamentals of matter, atomic structure, mixtures and solutions, compounds and chemical bonding, and radioactivity.

Course Title: Environmental Science

.5 - 1.0 science credit

Prerequisite – None

Course Description: The first semester of this course is a study of ecology and the relationships between all components of the biosphere. Much of the class lab time is devoted to our school garden until the snow flies, and we are forced inside. During the second semester we focus on current sustainability issues in our environment and the causes/solutions to these problems. During both semesters students are involved in an ongoing study with a local wildlife biology research group.

Summit High School 2017-2018 Course Catalog
Art

Course Title: Art Projects

.5 FA credit

Prerequisite: None

Course Description: This is an elective course designed to expose students to a variety of art mediums and art making techniques. The goal is for students to experience various art mediums including; drawing, painting, sculpture, printmaking, and multimedia processes to discover their personal preferences, explore contemporary and historical cultural art forms as well as individual values and beliefs within the classroom setting. Students are expected to practice various techniques while in class, participate in discussions regarding art work, understand art terms, and present their artwork to the class.

Summit High School 2017-2018 Course Catalog
Spanish

Course Title: Spanish I

.5 - 1.0 FL Credit

Prerequisite: None

Course Description:

Students will learn Spanish through a variety of activities: listening to instructions, dialogues and songs, viewing videos, playing games, performing skits, and role playing situations in small groups. Within the context of these units, students will be exposed to grammatical concepts. Spanish will be primarily spoken in this class in order to expand the student's vocabulary, and improve conversational fluency.