

**CLASS OF 2023**

**FRESHMAN COURSES**



**WELCOME**



# ENGLISH

## **ENGLISH 9**

***This year long course*** is designed for all 9th graders. It fulfills the 9th grade literature and writing requirement.

## **ENGLISH 9 HONORS**

***This year long course*** is designed for highly motivated, accelerated students who are reading and writing at an advanced 9th grade level and are willing to do at least an hour of homework each night. Placement is based on 8th grade teacher recommendation. Summer reading is required and will be posted on our website.

# SOCIAL STUDIES

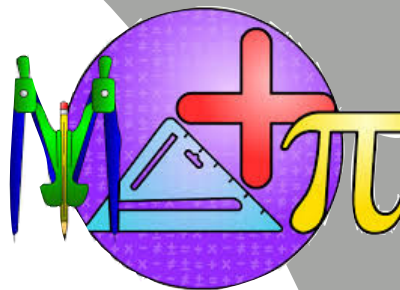
## **ALASKA STUDIES**

**Required for graduation**

***This is a semester course.*** The students will become familiar with the historic, economic, political, geographic, and cultural influences on Alaska and the ways these forces have shaped modern day Alaskan society.



# MATH



## ALGEBRA FUNDAMENTALS & ALGEBRA 1.1

***This is a year long course.*** Algebra Fundamentals (1st semester) is a review of the 8th grade math curriculum, and includes a review of skills in fractions, decimals, solving equations, addition, subtraction, multiplication and division of signed numbers. Algebra 1.1 (2nd semester) begins the Algebra I curriculum required for graduation. (1st year of 2-year Algebra program)

## ALGEBRA I

***This is a year long course*** that satisfies the Algebra I requirement for graduation. Students enrolling in Algebra I should have strong skills in fractions, decimals, solving equations, addition, subtraction, multiplication and division of signed numbers without the use of a calculator.

## GEOMETRY

***This is a year long course.*** The fundamental purpose of Geometry is to formalize and extend students' geometric experiences using more precise definitions and developing careful proofs. In Geometry, students will master the following topics: congruence and similarity through transformations, right triangle trigonometry, applications of probability, formal mathematical arguments, properties of circles, and the applications of geometric concepts to 3-dimensional situations. Additional topics covered will include constructions and trigonometry of general triangles. Success in this course requires regular practice, memorization of formulas, constant review of key topics and application of proofs and theorems.

## STEM GEOMETRY

***This is a year long course.*** To enroll in STEM Geometry a student must have successfully completed Algebra I with a grade of B or higher. Students completing Algebra I with a D or lower are recommended to repeat Algebra I their 9th grade year.

## ALGEBRA II

***This is a year long course*** it will provide an enrichment of the concepts learned in Algebra I, develops advanced algebra skills, and introduces new topics, preparing students for success in Functions and Trigonometry. Students will master polynomial and radical relations, developing real world non-linear models, basic trigonometric applications and statistical inferences. Topics covered will include operations with functions (linear, quadratic, polynomial, and rational), analyzing graphs of those functions and conic sections. Students will be introduced to rational functions and matrix mathematics. Success in this course requires regular practice, memorization of formulas, constant review of key topics and applications.

## STEM ALGEBRA II

***This is a year long course.*** In STEM Algebra II, students will master all of the topics from Algebra II, with a variety of additional topics to include an in depth study of asymptotic behaviors associated with radical and rational functions. STEM education is an approach to teaching and learning that integrates the content and skills of Science, Technology, Engineering and Mathematics.





## **BIOLOGY**

***This is a year long course.*** In the 2019-2020 school year, we are recommending all freshmen take Biology. Our goal is to prepare students in the freshmen year to take rigorous and engaging science courses for the years to follow.

**Biology:** is a required year long course. The academic focus will include practicing independent acquisition of information from written sources and formally written scientific reports. Scientific skills will include practice in developing testable questions and hypotheses, development of independent experiments, data collection and analysis skills. Students will study cells, cell organelles, protein synthesis, and of heredity, evolution, characteristics of multicellular organisms-with attention to organs and organ systems, and the diversity of organisms and ecology.

# SCIENCE



# PE & HEALTH

## PHYSICAL EDUCATION

***This is a semester course.*** “FUN” PE — Fundamentals of Physical Education. This required course is designed to be an introduction to develop student competency in a wide range of activities. The course will prepare students to make informed decisions about future physical education courses and leisure activities. In order to provide a comprehensive overview of physical education, students are required to begin their high school fitness experience with this course.

## 9<sup>TH</sup> HEALTH

***This is a semester course.*** The focus of this required course is the application of accurate and current health information and the development of healthy attitudes and behavior patterns. Decision-making and goal-setting skills are presented at developmentally appropriate levels. Students will learn content and practice skills through the study of the following eight strands: Overall Health/Wellness, Nutrition Communication/Relationships, Mental Health, Substance Abuse, and Reproduction/Sex Education.

## INTEGRATED FUNDAMENTALS OF PHYSICAL EDUCATION & HEALTH

***This year long course*** . This course will cover health and “FUN” PE. Students will have approximately 3 weeks of Health, then 3 weeks of PE alternating throughout the entire school year.

***Note: If students fail to complete both semesters of this integrated course, the semester credit earned will be elective credit only.***





## 2019-2020 Elective Options for the Freshman Year at West Valley

### ART:

- Studio Art 1A
- Studio Art 1B
- Ceramics 1A
- Ceramics 1B
- Jewelry 1A
- Jewelry 1B
- Alaska Native Arts 1A
- Alaska Native Arts 1B

### CTE: HOSPITALITY & TOURISM

- Culinary Arts 1A
- Culinary Arts 1B

### CTE: STEM

- \*Computer Applications
- \*@Computer Programming
- Creative Coding
- Autodesk Inventor 1A & 1B
- Engineering Design

### CTE: HEALTH SCIENCES

- \*Introduction to Healthcare Occupations
- \*First Aid & CPR

### CTE: ARTS & AUDIO/VISUAL

- \*Digital Photography 1A
- \*Digital Photography 1B
- \*Video Production 1A
- \*Video Production 1B
- \*Graphic Design & Publishing

### FOREIGN LANGUAGE:

- Chinese 1 YR
- French 1 YR
- Spanish 1 YR
- Spanish 2 (YR recommendation required)
- Japanese 1 (YR/Requires full UAF tuition  
– approx. \$1,100)

### MUSIC: What instrument do you play?

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- Mixed Choir YR
  - Concert Band YR
  - Jazz Band (year-meets before school)
  - Concert Orchestra YR
  - Beginning Guitar
  - Intermediate Guitar
  - Steel Drums
  - Advanced Steel Drums

### CTE: MISCELLANEOUS

- Marine Corps JROTC

*\*Tech Prep Courses – earn college credit at reduced tuition  
@Must have successfully completed Algebra 1*



# ELECTIVES