BAYHILL HIGH SCHOOL

Course of Study

2017-18

ACCREDITATION

Bayhill High School is accredited by the Western Association of Schools & Colleges (WASC). In addition, our courses meet A-G approval from the University of California.

GRADUATION REQUIREMENTS

4 years of English
3 years of math (including Algebra 1)
2 years of science (including Biology)
1 year of World History
1 Year of US History
1 semester each of Government & Economics
1 Year of Visual/ Performing Arts
2 Years of Physical Education and/or Health
1 Year of Study Skills/Technology
60 hour internship
65 units of electives

Additional Course Work to Meet A-G Requirements:

1 year of either Chemistry or Physics, 2 years of foreign language, 1 additional year of English, math, social science or history.

SOCIAL SCIENCE

World History

Students in this class study major turning points that shaped the modern world, from the late eighteenth century through the present, including the causes and course of the two world wars. They trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues. Students develop an understanding of current events and how they relate to them, looking at a variety of perspectives in order to better understand international relations. Themes will include:

- World Morality and Ethics
- French Revolution
- Industrial Revolution
- Imperialism
- World War I
- World War II and Totalitarianism
- The Aftermath of WWII and The Cold War
- Modern Nation Formation

US History

United States History and Geography: Continuity and Change in the Twentieth Century

Students will study the people and events which have shaped American History from 1848 to the present. Themes will include:

1.The Union in Crisis • The Nation Splits Apart • The Civil War • Reconstruction	**5. Champion of Democracy** • World War II Erupts • The U.S. in World War II • The Cold War Begins • Postwar America
2. An Industrial Nation • The Second Industrial Revolution • Life at the Turn of the 20th Century	**6. Facing Challenges** • The New Frontier and Great Society • The Civil Rights Movement • The Vietnam War • A Time of Social Change
3. Becoming a World Power • The Progressives • Entering the World Stage	**7. Looking Toward the Future** • A Search for Order • The Conservative Revolution

• World War I	• The Twenty-First Century
4. A Modern Nation • From War to Peace • The Roaring Twenties • The Great Depression • The New Deal	

Economics – 12 Grade

Over the course of the school year, students will have taken one semester of Government and one semester of Economics. In Economics, we will first investigate macroeconomics, how the economic policies of the government affect the U.S. economy as a whole, then analyze case studies in microeconomics on companies like Enron and the fast food industry with a focus upon the effect on individuals at varying income levels. We will discuss relevant current events to broaden our understanding of the American political and economic context. The curriculum is designed to meet Common Core Anchor standards for reading and writing, grade-level California Content Standards, and the California A-G requirements through skill acquisition and application of the course content. These standards have been summarized below:

NOTE: Whether enrolled in Government or Economics during the second semester, all seniors are required to complete a Senior Action Project and Presentation in that class.

Government – 12 Grade

Government is a semester-long course where we will examine and discuss the three branches of the government of the United States and their application to your lives as legal adults. We will thoroughly study the U.S. Constitution, the institutions of modern American Government, and the political behaviors of the American people. *Please note: If you take Government during spring semester, part of your classwork (and grade) will consist of the Action Project portion of your English research project. Conversely, those of you taking Government during fall semester will do your Action Project in Economics in the spring.

Every week we will discuss relevant current events to broaden our understanding of the American political landscape. The curriculum is designed to meet grade-level U.S. Common Core Standards and the California A-G requirements through skill acquisition and application of the course content.

ENGLISH

9th Grade English

In English 9 we will explore literature from around the world, beginning with classical and modern fairy tales and mythic allusions and ending with non-fictional memoirs. This class focuses on Myth and Memoir within the theme of self-discovery. We will read and analyze a variety of texts to build reading comprehension, vocabulary, literary response, and writing skills to meet the Common Core Standards and California A-G requirements.

10th Grade English

In English 10 we will explore literature from around the world, beginning with *The Metamorphosis*, the strange story of Gregory, who randomly turns into a bug, forcing us to contemplate the absurdity of our modern world, followed by Shakespeare's *The Taming of the Shrew*. We finish the year with *To Kill a Mockingbird* and *Vernon God Little*, which follows a sarcastic 15 year old boy as he negotiates a world of school shootings, media created hysteria, hollow materialism and a community who needs a scapegoat. Our classes will focus on the themes of absurdism, social conflict and social justice. As we read these novels and supplementary short stories, poetry, and nonfiction reading, we will build reading comprehension, vocabulary, literary response, and writing skills to meet Common Core Standards and California A-G requirements.

Students will apply and enhance these skills in writing projects, class discussion, and multimedia presentations. The culminating project will involve the writing of a biographical research paper in the fourth quarter. Students will choose a figure they admire who embodies the themes of social justice or social conflict that we explore throughout the year.

11th Grade English

In English 11 we will study literature from different authors in the United States through key historical moments including: Westward Expansion, World War II, Harlem Renaissance, Mid Century, and the Cold War. This class focuses on both the historical and social justice aspects of these texts. We will read and analyze a variety of texts to build reading comprehension, vocabulary, literary response, and writing skills to meet the Common Core Standards and California A-G requirements.

12th Grade English

In English 12 we will explore dystopian and utopian literature embodying the universal themes of despair and hope. Beginning with George Orwell's *Animal Farm*, we will also read Aldous Huxley's *Brave New World*, finishing the year's literature with *Hamlet* by William Shakespeare and one other novel or play to be determined. As we read these novels and supplementary short stories, poetry, and nonfiction reading, we will build reading comprehension, vocabulary, literary response, and writing skills.

Students will apply and enhance these skills in writing projects, class discussion, and multimedia presentations. The culminating project will involve the writing of a Senior Research Project, involving extensive study on an issue of social justice that is important to you. This curriculum is designed to meet grade-level U.S. Common Core Standards and the California A-G requirements through skill acquisition and application, with emphasis on critical reading/thinking and descriptive writing.

MATHEMATICS

Basic Math/Pre-Algebra

This course is for students who's basic understanding of mathematical concepts and principals needs further development before entering Algebra 1. This class uses a structured, multisensory approach that begins at very basic numeracy and builds math skills based on mastery and strong foundational understanding.

Algebra 1

This course in Algebra examines the mathematical logic and calculations that lead to an ability to solve complex algebraic equations. Symbolic reasoning and calculations with symbols are central in algebra. In addition, algebraic skills and concepts are developed and used in a wide variety of problem solving situations. The course employs multi-sensory instruction with real-world connections. Basic mathematics and pre-algebra skills will be revisited throughout the course, such as note-taking, organization, and vocabulary.

Course Topics:

- Solving multistep problems, including word problems, involving linear equations.
- Graphing Linear equations.
- Deriving linear equations from two given points.
- Opposite numbers, reciprocals, absolute values, roots and exponents.
- Understand relations, functions and the quadratic formula.
- Integers and basic arithmetic operations.
- Simplify and expressions and solving linear equations in one variable.
- Solving systems of two linear equations in two variables algebraically and graphically.
- Students add, subtract, multiply and divide monomials and polynomials.

Geometry

Students will learn geometry skills and concepts that are useful to all students in everyday work and life. The following topics are included: geometric proofs; perimeter, area, and volume of two- and three- dimensional figures; size transformations; Pythagorean theorem; constructions; triangle, circle, and polygon properties; special triangles; coordinate geometry and trigonometric functions. The course employs multi-sensory instruction with real-world connections. Basic mathematics, pre-algebra skills, and Algebra 1 skills will be revisited throughout the course when necessary.

Course Topics:

- Introducing Geometry
- Reasoning in Geometry
- Using Tools of Geometry
- Discovering and Proving Triangle Properties
- Discovering and Proving Polygon Properties
- Discovering and Proving Circle Properties
- Transformations and Tessellations
- Area
- The Pythagorean Theorem
- Volume
- Similarity
- Trigonometry
- Geometry as a Mathematical System

Algebra 2

Algebra 2 is an advanced examination of number sense, graphing and equations, special functions, trigonometry, data analysis, and probability and statistics. Symbolic reasoning and calculations relating equations and graphs are central in an advanced study of Algebra. In addition, algebraic skills and concepts are developed and used in a wide variety of problem-solving situations. The course employs multi-sensory instruction with real-world connections. Basic mathematics, pre-algebra skills, and Algebra 1 skills will be revisited throughout the course when necessary.

Course Topics:

1. Equations And Inequalities
2. Linear Equations and Functions
3. Systems of Equations and Inequalities
4. Quadratic Functions and Relations

5. Polynomials and Polynomial Functions
6. Inverses and Radical Functions and Relations
7. Exponential and Logarithmic Functions and Relations
8. Rational Functions and Relations
9. Conic Sections
10. Sequences and Series
11. Probability and Statistics
12. Trigonometric Functions
13. Trigonometric Graphs, Identities, and Equations

Pre-Calculus

This course is designed to introduce you to rigorous analysis of functions and function modeling. By the end of the course, you will be able to analyze the characteristics of various functions using multiple representations, including graphical, numerical, and analytical methods. You will also be able to model various scenarios using an appropriate model, and will develop you skills in justifying a chosen function model using mathematical properties as well as real-world context. You will leave the course with a deeper appreciation of the interaction between mathematics and the world around you, and will be prepared to handle the conceptual and numeric rigor of calculus.

Course Topics:

- Equations And Inequalities
- Linear Equations and Functions
- Linear Systems and Matrices
- Quadratic Functions and Factoring
- Polynomials and Polynomial Functions
- Rational Exponents and Radical Functions
- Exponential and Logarithmic Functions
- Rational Functions
- Quadratic Relations and Conic Sections
- Counting Methods and Probability
- Data Analysis and Statistics
- Sequences and Series
- Trigonometric Ratios and Functions

SCIENCE

Biology

The Biology course is a first-year course in biology at the high school level. The course

emphasizes a multi-representational approach to science, with concepts, results, and experiments being expressed graphically, analytically, and verbally. The course commences by reviewing the scientific process and its applications to exploring life. It then examines in detail the cellular basis of life: human anatomy and physiology; genetics; the plant, animal and microbial kingdoms; and relates back to ecology and evolution. The Biology course will also involve computer based learning tools, traditional hands-on laboratory experiments, and collaborative group projects.

Chemistry

The Chemistry course is a first-year course in chemistry at the high school level. The course emphasizes a multi-representational approach to science, with concepts, results, and experiments being expressed graphically, analytically, and verbally. The course commences by reviewing the scientific process and its applications to exploring life. It then examines in detail the atomic and molecular structure; chemical bonds; conservation of matter and stoichiometry; gases and their properties; acids and bases; solutions; chemical thermodynamics; reaction rates; chemical equilibrium; organic chemistry and biochemistry; and nuclear processes. The Chemistry course will also involve computer based learning tools, traditional hands-on laboratory experiments, and collaborative group projects.

Physics

Physics explores the most basic of all the physical sciences. The course begins with an exploration of mechanics, including motion, forces, gravity, energy and momentum. The course continues with the properties of matter, heat, sound, light, electricity and magnetism. There will be traditional hands-on laboratory experiments related to the course topics, as well as special projects.

In addition, to the physics concepts outlined below, students will be required to keep a spiral-bound notebook for note-taking, a file or binder for hand-outs in order to assemble a compilation of physics laboratory work needed for student portfolios.

ENVIRONMENTAL SCIENCE

The curriculum for Environmental Science class has been designed to introduce students to major ecological concepts and the environmental problems that affect the world in which we live.

There is a critical need for environmental education and this curriculum provides one way where students can become attentive to the interactions of people and their environment. The curriculum focusses on concepts that are real-life issues and stimulates awareness and

understanding of practical everyday problems that affect their lives. It also relates important environmental issues to the lives of the students and their families.

Standards
Exploring Science and the Environment
The Dynamic Earth
How Living Things Interact
The Diversity of Life
Biomes of the World
People and the Environment
Energy
Water Resources and Water Pollution
Air Pollution
Solid and Hazardous Waste
Feeding the World
Protecting Biodiversity
A Sustainable World

HEALTH

This course emphasizes a broad range of topics including areas of mental, physical and social health. A variety of multi-representational methods like computer-based learning tools, class discussions and collaborative group projects will be utilized in this course.

1. Introduction
2. Nutrition and Physical Activity
3. Growth, Development and Sexual Health
4. Injury Prevention and Safety
5. Drug Use and Abuse
6. Mental, Emotional and Social Health
7. Personal and Community Health
8. Global Issues

LANGUAGE

SPANISH 1

In this class, we will study the Spanish language. We will look at important vocabulary and grammatical concepts, but also will study the importance of the Spanish language in our own culture as well as its influence and prevalence around the world. It is important when learning another language to put things into context; that is- to use this new language in ways that you will retain the meaning of phrases and words that you may need in real life situations.

SPANISH 2

In this class, we will study Spanish and many related topics from a variety of viewpoints and wide range of ways. We will look at important vocabulary and grammatical concepts, but also will study the importance of the Spanish language in our own culture as well as its influence and prevalence around the world. It is important when learning another language to put things into context; that is- to use this new language in ways that you will retain the meaning of phrases and words that you may need in real life situations.

AMERICAN SIGN LANGUAGE 1

The Course involves the learning of beginner levels of American Sign Language which includes the history, structure, and grammar of American Sign Language (ASL). It also incorporates the study of the historical and cultural contexts of the Deaf community.

TOPICS TO BE COVERED:

Chapter 1: Introducing Oneself
Chapter 2: Exchanging Personal Information
Chapter 3: Discussing Living Situations
Chapter 4: Talking about Family
Chapter 5: Telling about Activity
Chapter 6: Storytelling

AMERICAN SIGN LANGUAGE 2

This course builds on the concepts learned in ASL I which includes the history, structure, and grammar of American Sign Language (ASL). It also incorporates the study of the historical and cultural contexts of the Deaf community.

TOPICS TO BE COVERED:

Chapter 7: Describing People and Things
Chapter 8: Making Requests and Asking for Advice

Chapter 9: Describing Places
Chapter 10: Giving Opinions about Others
Chapter 11: Discussing Plans and Goals
Chapter 12: Storytelling and Fables

VISUAL ARTS

Art Fundamentals

Art Fundamentals is a visual arts class. In this class you will spend most of your time learning about art by making art- designing, assembling, and revising your work until it meets your own expectations and the goals of each assignment. You will also be learning about art by looking other people's work, and talking and writing about it.

Making art is about making things, but it is even more about making choices. Understanding the reasons and kinds of choices artists make is a key to understanding art. Thinking about the kinds of choices you make, and the reasons why, can improve your creative work and can help you understand what is important to you. As we do these projects we'll be thinking about what goes into these creative choices in some specific ways:

Advanced Art: Drawing, Painting, Printmaking and Sculpture

This is a class for students who have already taken visual arts in high school and who want to expand their knowledge of techniques, materials and ideas. The first semester will be focused on three-dimensional work (sculpture). During the second semester we will be working in "flat" media- drawing, painting and printmaking.

STUDIO ART 1 – Self & Context

This is a class for students who want to expand the depth of their skill, knowledge and understanding of art. Most of the class will be focused on completing several in-depth projects. Some of these projects will be based on specific assignments and some of them will be planned jointly by the students and the instructor.

Discussion and critique of student work will be a major aspect of the class. Critique will focus on the contrast between the artists' experiences and intention and the perception of the artists' class mates,. We will talk about the work in terms of design principles, the use of elements of art and the content or subject of the work. We will also be looking at the role art plays in our culture here and now, and how that fits into a larger historical and cultural context.

Students will examine their own relationship with art; what they value and aspire to in their work. This process will culminate in the selection of best work into a portfolio, and the writing of an artist statement to help viewers understand what is important about the work.

Studio Art 1 – Surfaces & Meanings

This is a class for advanced students who want to expand the depth of their skill, knowledge and understanding of art. In this class we will be studying the use of several different materials used in art, and learning to understand how the physical properties of different materials create different kinds of surfaces and visual effects. We will also look at the work we create in class and the work of many notable artists and talk about the relationship between the materials used in the work and the feelings and ideas the work communicates.

In this class you will also continue to explore and develop your drawing skills, working both from imagination and from observation.

NOTE: You will be required on occasion to visit Bay Area galleries, on your own time, as part of your homework. These assignments will be given with plenty of lead time in order to ensure that transportation and time for the visits can be arranged.

PHOTOGRAPHY AND DIGITAL MEDIA

This is an interdisciplinary course with an emphasis on interactive projects. During the first semester, students will explore historic and contemporary fine art photography while developing their own photography portfolio. Throughout the second semester, students will gain the skills to strategize, implement, and edit unique multimedia digital art.

PERFORMING ARTS

BAND

This class is largely performance oriented, meaning we will work together to develop a repertoire of music that is challenging, fulfilling to perform, and instructional. Through learning to perform songs from our rich history of popular music, students will learn basic fundamentals of music theory, aspects of a disciplined performance practice, and historical / cultural context for the music being performed.

We will also spend some of our time together covering important periods in music history, including an introduction to, and overview of, various musical styles and forms from

around the world. In addition to these areas of study, we will also be encountering how music intersects with other subjects - mathematics, science / physics, visual art, computer technology, sociology, language and creative writing, among others.

DANCE 1

Dance 1 is an introductory course that presents the fundamentals of dance movement and theory. In Dance 1, students practice various dance styles and techniques while studying dance history through the exploration of diverse, influential dancers and choreographers. The course culminates in the students creating their own choreography and performing in the community and/or at school-wide events. No previous dance experience is required. Students cultivate a heightened awareness of body movement and timing, in Dance 1, creating a strong foundation to prepare them for more advanced classes.

PHYSICAL EDUCATION

The Physical Education Staff at Bayhill High is committed to helping all students gain an appreciation of the lifetime benefits of pursuing healthy living through activity, wellness, and social interaction. Dedicated to maintain a non-threatening environment where all students are free to challenge themselves.

Physical Education is required by state law. Participation in a well-planned program is part of a good high school curriculum. We feel that fitness is of such great importance that much of your grade will be determined by your effort to achieve a high level of personal fitness through our daily exercise, jogging/running, and sports/games.

TECHNOLOGY

21st Century Learning

The intent of this course is to enable students to organize their work, improve vocabulary, and utilize technology for study and research. While the nuts and bolts of study skills, organization, and grammar may seem mundane, they are the foundation of all academic success.

Course content will include an introduction to various learning differences, brain development and functions, vocabulary from classical roots, and internet based research. In addition, we will be practicing the fundamental elements of keyboarding, the essay writing process, multimedia

presentation, as well as exploring elements of public speaking in order to establish a foundation for academic scholarship.

STUDY STRATEGIES

Academic Success

Academic Support is a daily period that allows students to receive help on classwork and homework under the guidance of a teaching assistant. Class size is small to provide guidance in executive functions (organization, time management, and planning) necessary for work completion.

Read Write Success Syllabus

In Read/Write Success class you will develop your reading and writing skills. You will also learn executive function and study skills. Over the course of this year you will work on the following:

- Word attack - decoding multi-syllable words by identifying the prefixes, suffixes and common roots.
- Vocabulary Development – predicting meanings of words through knowledge of word roots, prefixes and suffixes, and by using prior knowledge and contextual clues.
- Comprehension - monitoring your comprehension using strategies like Read, Pause, Reflect and, when you don't understand, using strategies like rereading and looking for contextual clues to figure it out.
- Writing - developing sentence fluency, using different ways to start sentences, recognizing syntactic errors, and revising.
- Executive Function - managing your time, planning, organizing, advocating for yourself, starting tasks and motivating yourself.

TRANSITION

LIFE SKILLS CLASS

Life Skills course will include many transition activities designed to encourage students to explore their maximum potential while learning the skills necessary to transition from school and parental care into adult independence. This class will teach students how to incorporate Life Skills related knowledge into everyday behavior. Students will be exposed to information and skill-building exercises geared towards personal, social and emotional development. Studies show that, in order for students to be College and Career Ready, they must have access to a well-rounded education which consists of a rigorous and broad curriculum grounded in

core academic disciplines merged with other pertinent subject areas such as Life Skills.

JUNIOR INTERNSHIP

All students are required to complete a 60- hour internship during their junior year. The Bayhill Internship Program provides opportunities for students to explore possible post-secondary education options and/or career interests. Bayhill operates from the belief that when students experience engaging, skill-building internships they are favorably impacted.