



2018-2019

# Bayfield High School

## Course Catalog

The Bayfield School District 10 JT-R does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following persons have been designated to handle inquiries regarding the non-discrimination policies:

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**\*\*Course Fees May Apply and are Subject to Administrative Approval**

**\*\*Course Offerings Subject to Enrollment Numbers**

**\*\*Honors & AP Course Require Teacher Recommendation**

**\*\*Some courses may require a level testing to allow placement**

## **BHS Core Content Departments**

### **English Department**

#### **English I: Literature and Composition**

**English Credit - 1**

**Pre-requisites: None**

**9th**

In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write a research paper, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year.

#### **Honors English I: Literature and Composition**

**English Credit - 1**

**Pre-requisites: 8<sup>th</sup> grade teacher recommendation, Summer Book Reports**

**Required Materials: Vocabulary Book**

**9th**

In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write a research paper, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year. In preparation for college credit and other advanced classes, rigorous and independent work is expected of students enrolled in this course.

#### **English II: World Literature and Composition**

**English Credit - 1**

**Pre-requisites: English I**

**10th**

In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of world literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write a research paper, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year.



## **Honors English II: World Literature and Composition**

**English Credit - 1**

**Pre-requisites: English I, Teacher recommendation, Summer Book Reports**

**Required Materials: Vocabulary Book**

**10<sup>th</sup>**

In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of world literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write a research paper, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year. In preparation for college credit and other advanced classes, rigorous and independent work is expected of students enrolled in this course.

## **AP Language & Composition**

**English Credit - 1**

**Pre-requisites: English I or Honors English 1, Teacher recommendation,**

**Required Materials: Vocabulary Book, Summer Book Reports**

**10<sup>th</sup>**

This course focuses on the rhetorical analysis of non-fiction texts and the development of and revision of well-reasoned, evidence-centered analytic and argumentative writing. In order to meet the Colorado State Standards in Reading, Writing and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening and language. Direct instruction in grammar and vocabulary will be a regular part of class. This course emphasizes the reading of difficult nonfiction essays and frequent writing assignments. The course will give students the strategies for use in college writing. Students will analyze the rhetorical strategies in works, argue and reflect on works, and synthesize outside sources in research essays and prose passages. Exams from previous years, including AP essay questions, will be extensively used. Students will also engage in public speaking and presentations throughout the course. This is a rigorous course. Summer work is required. It is expected that all AP students will take the AP exam in May. Failure to register the AP exam will result in the AP course designation being removed from the transcript and the grades(s) earned will not be weighted.

## **English III: American Literature and Composition**

**English Credit - 1**

**Pre-requisites: English II**

**11<sup>th</sup>**

In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of American literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write a research paper, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year.



### **Honors English III: American Literature and Composition**

**English Credit - 1**

**Pre-requisites: English II, Teacher recommendation, Summer Book Reports**

**Required Materials: Vocabulary Book**

**11th**

In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of American literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write a research paper, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year. In preparation for Advanced Placement English Literature and Composition, rigorous and independent work is expected of students enrolled in this course. Concurrent enrollment may be available for this course.

### **English IV: British Literature and Composition**

**English Credit - 1**

**Prerequisites: English III or Honors English III**

**12<sup>th</sup>**

In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of British literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write a research paper, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year. 099 credit may be available for this course.

### **AP English Literature and Composition**

**English Credit - 1**

**Pre-requisites: English III or Honors English III, Teacher recommendation, and Summer Book Reports**

**12th**

Advanced Placement English (AP) is a senior level class. In order to meet the Colorado State Standards in Reading, Writing, and Communicating, this class will focus on grade-level skills in reading, writing, speaking, listening, and language. Direct instruction in grammar and vocabulary will be a regular part of class. Significant reading of various genres of British literature and writing activities will form the core of language arts content. Students will also engage in public speaking and presentations throughout the course. Students will write research papers, several formal academic essays, out-of-class book reports, and numerous smaller written assignments throughout the year.

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language. Concurrent enrollment may be available for this course; students must meet admittance requirements for crediting institution. It is expected that all AP students will take the AP exam in May. Failure to register the AP exam will result in the AP course designation being removed from the transcript and the grades(s) earned will not be weighted.



## **English Department Electives**

### **College Public Speaking**

**Elective Credit – 1**

**Pre-requisites: Must meet admittance requirements for crediting institution**

**12<sup>th</sup>**

This course introduces elements of speech and principles of effective speaking in public. Emphasis is placed on performance and skills in preparing and presenting a public speech. Good content, organization, delivery, audience, and analysis are some of the tools with which students will be evaluated. Students will understand the theory and practice of presentational speaking in a variety of contexts to accomplish goals of asserting individuality, building community, securing adherence, discovering knowledge and belief, and offering perspectives. There will be an emphasis on current events for several assignments, including debates. This course will also explore the role of contemporary media in our society. Students will research, craft, and present various types of speeches throughout the semester. Concurrent enrollment may be available for this course; students must meet admittance requirements for crediting institution.

### **Creative Writing**

**Fine Arts Credit - 1**

**Pre-requisites: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This class will focus on writing within multiple genres of literature, expanding on poetry, non-fiction writing, and publishing. To strengthen creative writing skills and knowledge of the publication process, the class will utilize a structured workshop format including direct instruction, literary technique development, domain specific vocabulary, extensive revision, and production and presentation of a final portfolio. Concurrent enrollment may be available for this course.

## **Math Department**

### **Foundations for Algebra**

**Math Credit - 1**

**Pre-requisites: Qualifying placement score**

**Material Requirements: Scientific Calculator (Such as TI-30XS)**

**9<sup>th</sup>**

Foundations of Algebra is designed to give students a firm foundation in mathematical concepts needed to prepare them for Algebra I and math courses beyond. Students will improve their foundations in basic math operations and will learn fundamental concepts of linear relationships. Some of the topics covered include simplifying expressions, real numbers, solving equations and inequalities, and graphing linear equations. Students who enroll in Foundations of Algebra will need to follow the 4 credits of math track.



## **Algebra I**

**Math Credit - 1**

**Pre-requisites: Qualifying placement score**

**Material Requirements: Scientific Calculator (Such as TI-30XS)**

**9<sup>th</sup>, 10<sup>th</sup>**

Algebra I is a one year course that studies patterns and structures within the real number system.

The course provides the mathematical skills and background required for high school and college mathematics courses.

The course includes the study of fundamental concepts; equations and inequalities; functions and graphs; polynomial and rational functions; and systems, exponential functions, and systems of equations.

## **Geometry**

**Math Credit - 1**

**Pre-requisites: Qualifying Placement Score Material**

**Requirements: Scientific Calculator (Such as TI-30XS) 9<sup>th</sup>, 10<sup>th</sup>,**

**11<sup>th</sup>**

Geometry studies, develops, and practices problem-solving skills using inductive and deductive reasoning that provides the mathematical skills and background required for high school and college mathematics courses. Geometry provides the vocabulary and skills needed to understand and organize geometrical concepts. It involves students in a deductive system of thought that involves points, lines, angles, polygons, polyhedrons, and circles. The course includes applications of algebra to geometry and elementary trigonometric concepts.

## **Honors Geometry**

**Math Credit – 1**

**Pre-requisite: Qualifying Placement Score, Teacher Recommendation**

**Material Requirements: Scientific Calculator (Such as TI-30XS)**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>**

Honors geometry is a course intended for students who excel in math or who intend to continue their study of higher levels of mathematics in high school and college. Students in this class will be challenged to think and collaborate critically through the application, analysis, evaluation, and creation of complex ideas that are often abstract and multi-faceted. This honors course will take an in-depth look at creating geometric constructions for many of the geometric concepts covered. Students will be challenged with enrichment assignments that will require time outside the regular classroom scheduled time. The course will also have an increased emphasis on the writing of formal geometric proofs using deductive reasoning. This course will require students to be highly motivated as the instruction will be faster paced with an expectation of a higher level of understanding of all geometric postulates and theorems.

## **Algebra II**

**Math Credit - 1**

**Pre-requisites: Geometry**

**Material Requirements: Scientific Calculator (Such as TI-30XS)**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Algebra II is the study of functions and the translations of the graphs of those functions. The course extends the content of Algebra I and provides further development of the concept of a function. Topics include (1) relations, functions, equations and inequalities; (2) conic sections; (3) polynomials; (4) algebraic fractions; (5) logarithmic and exponential functions; (6) sequences and series; (7) counting principles and probability; and (8) circular trigonometry



## **Statistics**

**Math Credit - 1**

**Pre-requisites: Algebra II**

**Material Requirements: Graphing Calculator (Such as TI-83/84)**

**11<sup>th</sup>, 12<sup>th</sup>**

Statistics is the mathematics of the collection, organization, and interpretation of numerical data, especially the analysis of population characteristics by inference from sampling. In this class students will examine the basic elements of probability, the binomial and normal distributions, measures of center and spread, and linear correlation. Students will measure central tendencies of data, explore data distributions, and examine bivariate data and frequency tables.

Students will develop strategies for collecting data. Students will learn how to test hypotheses and how to make statistical inferences from data. Students will test results for significance at various levels of confidence. The chi-square, normal, and  $t$  distributions will be studied. Students will learn how to use technology, as well as statistical tables, to do their analyses. It is the goal of the course to teach students to improve their critical thinking and to learn to make judgments based on sound statistical theory.

## **Topics of College Algebra**

**Math Credit - 1**

**Pre-requisites: Algebra II**

**Material Requirements: Graphing Calculator (Such as TI-83/84)**

**11<sup>th</sup>, 12<sup>th</sup>**

This course is a functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions and their graphs; inequalities; and linear, quadratic, piece-wise defined, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included. Upon entering Topics of Algebra, the student is expected to possess an understanding of elementary and intermediate algebra. MATH 099 credit may be available for this course for seniors only who meet the admission requirements for the crediting institution.

## **Math Functions (Trigonometry)**

**Math Credit - 1**

**Pre-requisites: Algebra 2**

**Material Requirements: Graphing Calculator (Such as TI-83/84)**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Math Functions is a pre-calculus course which emphasizes a better understanding of functions and their applications and strengthens students' mathematical reasoning and problem-solving skills. Some of the topics covered include trigonometry, logarithms, polar coordinates, complex numbers, polynomial functions, rational functions, exponential functions, logarithmic functions, sequences, series, and limits.



## **AP Calculus A/B**

**Math Credit - 1**

**Pre-requisites: Math Functions**

**Material Requirements: Graphing Calculator (Such as TI-83/84)**

**11<sup>th</sup>, 12<sup>th</sup>**

Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and with providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Understanding the connections among these representations is of primary importance.

As a result of this course, students should understand the meaning of the derivative in terms of a rate of change and as a local linear approximation. Students should understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change. Students should understand the relationship between the derivative and the definite integral as expressed in both parts of the Fundamental Theorem of Calculus. Students should be able to solve a variety of problems that rely on the derivative and on the integral and should be able to distinguish between the two types of problems. It is expected that all AP students will take the AP exam in May. Failure to register the AP exam will result in the AP course designation being removed from the transcript and the grades(s) earned will not be weighted.

## **Science Department**

### **Foundations of Integrated Science**

**Science Credit - 1**

**Pre-requisites: None**

**9<sup>th</sup>**

Integrated Science is an introductory lab-based science class designed to develop high school level scientific inquiry and thinking skills through multiple scientific fields. These foundational skills will be focused in the area of Chemistry, Earth Science and Physics. Students can expect to be engaged in activities and labs to solve challenging problems. Students will learn motion, forces, and energy concepts, the periodic table, nomenclature, chemical equations, and stoichiometry.

### **Biology**

**Science Credit – 1**

**Pre-requisites: 9<sup>th</sup> Grade Science**

**10<sup>th</sup>**

This is a fundamental course that focuses on the characteristics of life, the chemistry of life, cell structure, and organelle function that include transport, energy production and use, cell reproduction, genetics, and protein synthesis. Required for sophomore students.



## **Ecology/Geology**

**Science Credit – 1**

**Pre-requisites: 9<sup>th</sup> Grade Science, Biology**

**11<sup>th</sup>, 12<sup>th</sup>**

This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationship of the natural world; to identify and analyze environmental problems, both natural and human-made; to evaluate the relative risks associated with these problems; and to examine alternative solutions for resolving and/or preventing them. It will also provide a general survey of geologic processes that shape the earth today.

## **Chemistry**

**Science Credit - 1**

**Pre-requisites: 9<sup>th</sup> Grade Science, Biology**

**11<sup>th</sup>, 12<sup>th</sup>**

Topics of discussion include atomic structure, chemical composition, phases of matter, gas laws, acids, bases, salts, hydrocarbons, nuclear reactions, and other topics of Chemistry.

## **Chemistry in the Community**

**Science Credit – 1**

**Pre-requisites: 9<sup>th</sup> Grade Science, Biology**

**11<sup>th</sup>, 12<sup>th</sup>**

ChemCom consists of seven units that emphasize organic chemistry, biochemistry, environmental chemistry, and industrial chemistry. Students learn concepts on a need-to-know basis, evaluate data and make decision based on their knowledge and observations. The lab-based course features activities that give students practice in applying their knowledge of Chemistry.

## **Physics**

**Science Credit - 1**

**Pre-requisites: Biology, Algebra 2 (Trig recommended)**

**11<sup>th</sup>, 12<sup>th</sup>**

This is a college prep course that includes discussion of velocity and acceleration, forces and gravity, energy and power, sound and light, temperature and heat, electricity and magnetism, and other special topics. The course is designed for college-bound students with an interest or aptitude in physical science and/ or math.

## **Anatomy & Physiology**

**Science Credit - 1**

**Pre-requisites: 9<sup>th</sup> Grade Science, Biology**

**11<sup>th</sup>, 12<sup>th</sup>**

This course provides students with an in-depth study of health care careers including actual clinical experience in a variety of areas. Instruction includes basic anatomy and physiology, medical terminology, diseases and disorders, medical ethics, and first aid. The class is designed to prepare students for a career in Health Science and/or for a variety of health technology programs.



### **College Biology**

**Science Credit -1**

**Pre-requisites: Biology**

**11<sup>th</sup>, 12<sup>th</sup>**

This course revisits cellular biology studied in biology but at an accelerated pace and at a higher reading and content level. This course goes in depth for all cellular functions such as transport, photosynthesis, cellular respiration, meiosis/mitosis (cell reproduction), genetics, and protein synthesis. Concurrent enrollment may be available for this course; students must meet admittance requirements for crediting institution.

## **Social Studies Department**

### **World Geography/World History**

**Humanities Credit - 1**

**Prerequisites: None**

**9<sup>th</sup>**

In World Geography students will develop a comprehensive knowledge and understanding of our Earth and the uses of geography in it. World History is a survey from Prehistoric Times through the Age of Discovery. Students will understand how economy, environment, politics, culture, and social processes interact to shape patterns of human populations, resources, interdependence, conflict, and cooperation. Students will also have an increased understanding of their unique place in time, have a sense of human development, and be able to make connections to the present and possess a solid foundation for reflective thought in the future.

### **Economics**

**Economics Credit -1**

**Pre-requisites: World History/ Geography**

**10<sup>th</sup>**

This course explains the central economic concept of scarcity and how society chooses to allocate its natural, human, and capital resources. Students will understand how government policies and competition affect the price of goods and services exchanged in the marketplace. In addition, personal financial literacy will be covered. Students will learn how to make sound financial decisions and develop a personal budget that addresses short-term and long-term goals, including spending, saving, and investment options.

### **United States History**

**Humanities Credit - 1**

**Pre-requisites: Economics**

**11<sup>th</sup>**

This course examines the cultural, political, and economic events and circumstances that have shaped the United States from Reconstruction to the present. We will interpret these historical factors to better understand who we are today and why. It is through an adequate understanding of our nation's history that we can hope to shape a better future.



## **AP United States History**

**Humanities Credit - 1**

**Pre-requisites: Economics**

**11th**

The AP U.S. History course is a college level survey course and is designed to provide students with the analytic thinking skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. Students will be introduced to the larger themes of the American past, as well as the nature of historical research and become familiar with source materials useful for the study of America's heritage. The course integrates various themes of history in order to convey the experiences of particular groups within the broader perspective of the American past. At the same time, it connects events and issues from the past to the concerns of the present.

The pace of the course is rapid as it is designed to prepare students for college by making demands upon them equivalent to those made by college courses. Great attention is paid to a student's ability to read and assess historical materials (their relevance to a given interpretive problem, reliability, and importance) and weigh the evidence in order to make sensible informed judgments while presenting reasons and concrete evidence clearly and persuasively in essay format. It is expected that all AP students will take the AP exam in May. Failure to register the AP exam will result in the AP course designation being removed from the transcript and the grades(s) earned will not be weighted.

## **American Government**

**Humanities Credit - 1**

**Pre-requisites: United States History**

**12th**

This course focuses on interpreting the U.S. Constitution and analyzing the three branches of our federal system. We will examine the major historical and philosophical influences contained in the Constitution and discuss the role of government at the international, national, state, and local levels. It is through an understanding of the foundations of our democratic form of government that we become informed, productive citizens. This course requires researching current issues (immigration, education) for the purpose of influencing public policy; identifying which level of government is appropriate to influence change; Analyzing options for learning about and participating in local, state, and national issues; and investigating the goals and tools of U.S. foreign policy.

## **AP American Government**

**Humanities Credit - 1**

**Pre-requisites: United States History**

**12th**

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments. It is expected that all AP students will take the AP exam in May. Failure to register the AP exam will result in the AP course designation being removed from the transcript and the grades(s) earned will not be weighted.



## **Psychology**

**Elective Credit - 1**

**Pre-requisites: None**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Psychology is an introduction to the scientific study of behavior and mental processes, including an overview of the biological basis of behavior, sensation/perception, states of consciousness, learning and memory, thinking and language, intelligence, motivation and emotion. Students will research a topic and present a report to the class and the teacher.

Second semester we investigate an overview of the history of psychology, human development, stress and health, personality, disorders, therapy and social psychology. Students will conduct a data-collection project and analyze the results. Concurrent enrollment may be available for this course; students must meet admittance requirements for crediting institution

## **BHS Non-Core Departments**

### **Performing Arts**

**Concert Band (includes *Marching Wolverines*)**

**Fine Arts Credit - 1**

**Pre-requisites: None**

**Material Requirements: Students are expected to provide their own instruments except percussion, low brass, and low woodwinds. Rental and repair fees may be assessed for such instruments. Significant fees, including travel fee (up to \$75) and instrument rental (\$25), repair fees (as assessed) may be associated with Band. Student financial aid may be available through BAAM Music Boosters.**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Concert Band and Marching Wolverines stress superior musicianship and instrument technique. Elements of theory and history of western music are taught along with performance skills in a standards-based setting. Wind and percussion instrumentalists of all skill levels are welcome. All band members participate in marching band from August through October, including required daily morning rehearsals starting at 7:15 AM. Band camp is two weeks before school starts, usually the first week of August. Evening rehearsals during marching season may also be required. Members are expected to participate in several performances such as athletic events, contests, concerts, graduation, etc. Students enrolled in Concert Band are **required** to attend evening rehearsals, and day-long contests, as well as perform at athletic events such as football and basketball games. Academic eligibility is strictly enforced for contest performances.

### **Jazz Band**

**Fine Arts Credit - 1**

**Pre-requisites: Concert Band**

**Material Requirements: Instruments**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Continuing to develop musicianship and technique, members will learn to create improvisational solos in a performance setting. Members of jazz band, also known as *Outlier*, will learn funk, fusion, swing, ballad, rock, and other contemporary forms of stage band and combo music. Jazz history is taught alongside performance skills. Members may enhance the instrumentation of concert band, sharing the same performance requirements. *Outlier* is highly in demand in the area and may have a very demanding performance schedule in the community, including contests, concerts, and tours. All such performances are required.

Jazz band members may also participate in marching band and pep band in some years, depending on the needs of that group. Jazz band is a select group with limited instrumentation. Members may be required to audition before earning a place in jazz band.



## **Concert Choir**

**Fine Arts Credit - 1**

**Prerequisites: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Intended as the introductory vocal class at BHS, students in concert choir will experience a variety of singing styles and music from many places and times. This course covers singing fundamentals and performance techniques, including reading music and voice development. Sight singing, part singing, solo singing, vocal pedagogy, and performance are included in this standards-based course. This choir may perform at many concerts throughout the year, including festivals, honor choirs, and local concerts. Performances may have required attendance.

## **Advanced Choir Fine Arts Credit - 1**

**Pre-requisites: Concert Choir, Audition/Director Approval 10<sup>th</sup>,**

**11<sup>th</sup>, 12<sup>th</sup>**

The flagship vocal group in Bayfield Schools, advanced choir is intended to help students continue to develop their skills to the highest level and act as the district's musical ambassadors to the community. Students continue to learn in a variety of singing styles, with focus on historical as well as popular and audience-oriented selections. Students develop musical show performance skills, which may occasionally include choreography and dance, but the primary focus is on superior vocal technique. Senior students are expected to audition for All-State Honor Choir and will learn the advanced vocal techniques required for that group, well beyond the basic curriculum. The group may have a very demanding performance schedule. Advanced choir may supplement the membership of concert choir in performances. Performances may have required attendance.

## **High School Orchestra**

**Fine Arts Credit - 1**

**Pre-requisites: None**

**Material Requirements: Instruments**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Bayfield High School Orchestra will focus on the advancement of instrumental technique, further development of music reading and comprehension skills, independent musicianship, style, critical thinking skills, small ensemble music, and orchestral literature. Repertoire will contain both classical and popular music. Students will perform in small group ensemble projects, as well as a large group. Symphony orchestra will perform outside of class on a regular basis. Performances may have required attendance. Additional fees may apply.

## **Music Theory**

**Fine Arts Credit**

**Pre-requisites: One Year of ensemble experience**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course will cover topics to prepare the student for enrollment in their freshman theory class in college. Music theory is intended to challenge the advanced musician. Fundamentals of music, including notation, circle of fifths, scale construction, chord and interval recognition, and modes are covered. Analysis of chorales with secondary dominants and other works is the goal by the end of the semester. Sight reading and ear training will be a major portion of the class. Group work and instructor engagement is critical to success in theory; therefore, independent study theory will NOT be offered. Enrollment in the class is recommended for students wishing to continue with their music education beyond high school.



## **Fundamentals of Theatre**

**Fine Arts Credit - 1**

**Pre-requisites: None**

**Material Requirements: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Students will explore the theatre arts from a standpoint of actor, audience, director, and producer. Elements of acting, including mental, voice, and body preparation, pantomime, monologue, and duet acting start the course. Directing considerations, such as staging, blocking, and scene preparation, continue the semester. Basic production elements, such as costuming, sets, lights, sound, and props round out the curriculum. Several individual and group projects make up the course which culminates in a theatre exposition and one-act play performance. The best projects and plays are performed for the public on this evening. Participation in acting projects, including the expo, is mandatory. Important: Please note that theatre is not intended to be a class students take more than once.

## **Visual Arts**

### **Fundamentals of Art**

**Fine Arts Credit - 1**

**Pre-requisites: None**

**\*Course Fee: \$35**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This is an introduction of art using a variety of mediums to insure success to even the less confident artist. Students will learn skills in drawing, painting, print making, and metal tooling, as well as other mediums. The choice of mediums may vary. Students will learn to critique works of art as a form of visual communication. All assignments are based on the world standard of the elements and principles of design as well as meeting the state standards for visual arts. Artists will develop a digital portfolio and will participate in various art shows.

### **Studio Art**

**Fine Arts Credit - 1**

**Pre-requisites: Fundamentals of Art**

**\*Course Fee: \$50**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This is an advanced two dimensional art class. The responsibility will be on the student to creatively brainstorm each of their projects and conference with the teacher on supplies and the feasibility of the project. The student must work in multiple mediums to challenge and stretch their artistic skills. They will come up with their own projects with the exception of one computer art piece, one stretched canvas with oil paint, and one social commentary or surrealism. The student will choose a theme used to inspire their entire body of work. All assignments are based on the world standard of the Elements and Principles of Design as well as meeting the Colorado State Standards. Artists will develop a digital portfolio of their work that could be used for college or career pursuits.



### **Advanced Studio Art**

**Pre-requisite: Studio Art**

**Course Fee: \$50**

**11<sup>th</sup>, 12<sup>th</sup>**

This is an advanced two dimensional art class that is focused on the independent study by the artist. The responsibility will be on the student to creatively brainstorm each of their projects and conference with the teacher on supplies and the feasibility of the project. The student will choose a theme used to inspire their entire body of work. All assignments are based on the world standard of the Elements and Principles of Design as well as meeting the Colorado State Standards. Artists will develop a digital portfolio of their work that could be used for college or career pursuits. The projects are only limited by the individual artist's imagination.

### **Photography**

**Fine Arts Credit - 1**

**Pre-requisites: None**

**\*Course Fee: \$50**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This class is an introduction to image manipulation, black and white film photography, and digital photography. Students will learn how to use a 35mm camera, develop film, and make prints from their negatives. 35mm cameras are available for use, but having your own is preferred. Students will learn to critique works of art as a form of visual communication. All assignments are based on the world standard of elements and principles of design, as well as meeting the state standards for visual arts. Artists will develop a portfolio and will participate in various art shows.

### **Advanced Photography**

**Fine Arts Credit-1**

**Pre-requisites: Photography**

**\*Course Fee: \$50**

**11<sup>th</sup>, 12<sup>th</sup>**

Advanced photography students will be required to assist beginning photography students in the developing and printing process and making their own project presentations. They will do advanced photography techniques and create a photo series based on a personal theme. Students will learn to critique works of art as a form of visual communication. All assignments are based on the world standards of the elements and principles of design, as well as meeting the state standards for visual arts. Artists will develop a portfolio and will participate in various art shows. Students will occasionally leave campus to take photos. A current driver's license is recommended and parent consent will be required.

### **Ceramics**

**Fine Arts Credit - 1**

**Pre-requisites: None**

**\*Course Fee: \$35**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This class is an introduction to learning the basics of hand building and wheel throwing. Students will create both functional and non-functional ceramics. All products are food safe. Students will learn to critique works of art as a form of visual communication. All assignments are based on the world standard of the elements and principles of design, as well as meeting the state standards for visual arts. Artists will develop a portfolio and will participate in various art shows.



## **Studio Ceramics**

**Fine Arts Credit - 1**

**Pre-requisites: Ceramics**

**\*Course Fee: \$35**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Students will develop their own personal style while creating larger and more challenging projects. Students will create sculptures, hand-built projects, and wheel-thrown containers. The students will learn how to load and unload the kiln. Students will learn to critique works of art as a form of visual communication. All assignments are based on the world standard of the elements and principles of design, as well as meeting the state standards for visual arts. Artists will develop a portfolio and will participate in various art shows.

## **Advanced Studio Ceramics**

**Pre-requisites: Studio Ceramics**

**Course Fee: \$25**

**11<sup>th</sup>, 12<sup>th</sup>**

This is an advanced ceramic art class that is focused on the independent study by the artist. The responsibility will be on the student to creatively brainstorm each of their projects and conference with the teacher on supplies and the feasibility of the project. The student will choose a theme used to inspire their entire body of work. All assignments are based on the world standard of the Elements and Principles of Design as well as meeting the Colorado State Standards. Artists will develop a digital portfolio of their work that could be used for college or career pursuits. The projects are only limited by the individual artist's imagination.

## **Physical Education**

### **Fundamentals of Physical Education**

**P.E. Credit - 1**

**Pre-requisites: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course emphasizes basic health-related fitness and developing the skills and habits necessary for a lifetime of activity. This course provides students with opportunities to develop and maintain skills needed to use throughout their lifetimes. Among the activities provided are (1) health-related fitness activities, (2) aerobic exercise, (3) team sports, (4) individual and dual sports, and (5) recreational games. This course will also emphasize the importance of knowledge, attitudes, and practices relating to personal health and wellness. Topics of exploration include, but are not limited to; nutrition, physical fitness, violence, drugs, alcohol, self- image, sexually transmitted diseases, first aid, and safety.

### **Team Sports**

**P.E. Credit - 1**

**Pre-requisites: Fundamentals of Physical Education**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course will concentrate on the necessary skills, training, and strategic planning needed to succeed. This class will focus on the sport season in session but will also provide the same opportunity for those student/athletes looking to improve their skills, training, etc. outside of their athletic season. The sports offered will be volleyball, football, cross-country, basketball, non-contact wrestling skills, track & field, and baseball.



## **Personal Fitness for Women**

**P.E. Credit - 1**

**Pre-requisites: None**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is designed for women looking for overall fitness improvement. It combines instruction in the aspects of cardiovascular fitness, strength improvement, flexibility, muscle tone, and nutritional information. Among activities presented will be weight training, speed development, plyometric, yoga, and aerobics. An understanding of these components is focused towards benefiting women in athletics and overall fitness training.

## **Personal Fitness for Men**

**P.E. Credit - 1**

**Pre-requisites: None**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is designed for men looking for overall fitness improvement. It combines instruction in the aspects of cardiovascular fitness, strength improvement, flexibility, muscle tone, and nutritional information. Among activities presented will be weight training, speed development, plyometric, and aerobics. An understanding of these components is focused towards benefiting men in athletics and overall fitness training.

## **Foreign Language**

### **Spanish I**

**Foreign Language Credit - 1**

**Pre-requisites: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people. Present tense verb forms are tested.

### **Spanish II**

**Foreign Language Credit - 1**

**Pre-requisites: Competency in Spanish I**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s). Past tense verb forms are tested.



### **Spanish III**

**Foreign Language Credit - 1**

**Pre-requisites: Competency in Spanish II**

**11<sup>th</sup>, 12<sup>th</sup>**

Spanish III courses build upon skills developed in Spanish I and II, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Students will be able to express and support opinions about topics appropriate to grade level; initiate, sustain, and conclude conversations on a wide variety of general knowledge, personal and academic topics; persuade, negotiate, or offer advice about issues or points of view; and use a wide range of strategies to negotiate meaning, paraphrase, ask questions, circumlocution, and self-correct as needed to sustain communication. All verb tenses except past and present are tested.

### **Spanish IV**

**Foreign Language Credit - 1**

**Pre-requisites: Competency in Spanish III**

**11<sup>th</sup>, 12<sup>th</sup>**

Spanish IV courses build upon skills developed in Spanish I, II, and III, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Students will be able to identify the purpose and main idea, point of view, and predict outcomes; apply content and background knowledge to infer meaning; interpret and imitate culturally appropriate verbal communication (such as idioms, colloquial language, slang); and interpret meaning through knowledge of grammatical structures, cognates, and context. All verb tenses are tested.

### **French I**

**Foreign Language Credit – 1**

**Pre-requisites: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Designed to introduce students to French language and culture, French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need using customary courtesies and conventions. French culture is introduced through the art, literature, customs, and history of the French-speaking people.

### **French II**

**Foreign Language Credit – 1**

**Pre-requisite: French I**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is a continuation of where French I left off with an emphasis on oral language and developing simple conversations. It also continues to study and explore cultural aspects of France and Francophone countries.

### **Introduction to American Sign Language**

**Elective Credit – 1**

**Pre-requisite: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This is an entry level course designed to introduce students to American Sign Language (ASL) and finger-spelled signs as they are used within deaf culture. Students will learn the basics of ASL grammar and syntax, vocabulary, fingerspelling, numbers, and visual-manual communication. Deaf culture and history will also be integrated into the instruction.



## **American Sign Language II**

**Elective Credit – 1**

**Pre-requisite: ASL I**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

In ASL II students will to develop the skills and knowledge needed to communicate in American Sign Language. This course continues to develop American Sign Language vocabulary, sentence structure and fingerspelling. Emphasis is placed on the progressive development of expressive and receptive skills. Upon completion, the students should be able to comprehend and respond with increasing accuracy to expressive American Sign Language. Students will also continue their knowledge and learning in deaf culture, community and education.

# **BHS Career & Technical Education (CTE) Departments**

## **Family and Consumer Sciences**

### **Child Development/Life Management**

**Elective Credit - 1**

**Pre-requisites: none**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course will introduce students to early childhood development from birth to elementary age. Content includes perspectives of human development, research and theories, and understanding and nurturing development. The course will also include goal setting, career preparation, budgeting, building credit, consumerism, housing and transportation options, and use of credit cards and insurance. This is a project-based class. Career pathways will be explored throughout this course.

### **Fashion and Interior Design and Merchandising**

**Elective Credit - 1**

**Pre-requisites: none**

**\*Course Fee: \$35 9<sup>th</sup>,**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

The purpose of this course is to expose students to various aspects of the fashion and interior design and merchandising industry. Students will be introduced to the world of fashion design, clothing construction, and the design of residential and commercial interiors. The students will study fashion and interior design history, the elements and principles of design, and fashion and interior design drawing. Students will design a fashion product or interior, construct it, and then develop a marketing plan to merchandise it. Career information and educational opportunities will be explored throughout the course.



## **Culinary Nutrition**

**Elective Credit - 1**

**Pre-requisites: none**

**\*Course Fee: \$35 9<sup>th</sup>,  
10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

The purpose of this one-semester course is to develop lifelong, healthy individuals with an understanding of healthy and nutritious preparation techniques utilizing various resources and skills. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient-dense seasonal foods, sports nutrition, exploring careers related to culinary nutrition, and practicing wise consumer decisions. Students will participate in lab experiences and learn basics food preparation techniques.

## **Catering/Culinary Arts**

**Elective Credit - 1**

**Pre-requisites: Culinary Nutrition**

**\*Course Fee: \$50**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This is a 2-semester, in-depth course for sophomores, juniors, and seniors that prepares students for entry-level skills for employment in the field of food service. Topics will include advanced cooking techniques, front and back of the house service, commercial safety and sanitation practices, garnishing, plate presentation, flavor profiles, food trends, and entrepreneurship. Students will have the opportunity to test for their Serve Safe Food Handler card.

## **Skilled Trades**

### **Woodworking I**

**Elective Credit - 1**

**Pre-requisites: none**

**\*Course Fee: Cost of materials to construct the main project (\$40-50)**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This is a beginner level training for safety on all woodworking machines. Students will be trained to use many woodworking machines and power tools that aid in constructing an introduction project and the main project (night stand with a drawer).

### **Advanced Woodworking**

**Elective Credit - 1**

**Pre-requisites: Woodworking I**

**\*Course Fee: Cost of materials to construct the main project**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is for students that have completed Woods 1 and have good understanding of safety on all wood-working machines. Students are allowed to construct any project that is approved via instructor. Student is responsible for all material cost.



## **Drafting**

**Elective Credit - 1**

**Pre-requisites: none**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is an introduction to the fundamentals of drafting and design using mechanical drafting equipment and 3-D design software (solid works). The first half of the course is designed to introduce students to drafting and designing mechanical parts. The second half of the course is designed to introduce students to architecture drafting where students learn how to read and layout a floor-plan and elevation views using mechanical drafting and CADD.

## **Construction Processes**

**Elective Credit - 1**

**Pre-requisites: Woodworking I, Drafting or Carpentry**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is for students who have an interest in the Construction Trades (i.e. Carpentry, Framing, Electrical, Plumbing and much more). The course offers students a chance to earn a pre-Apprenticeship Certification upon completion in Core areas and individual certification areas of special interest. Components of this course will include Introduction to Building Trades Safety and First Aid, Construction Math, Tools and Construction Materials, Employability Skills and Green Building. Certifications in Carpentry, Electrical, Plumbing, and Painting and Finishing. The class will continue and complete a building project (Tiny House) with all finished components. This course also allows for certification through P.A.C.T – Home Builders Institute.

## **Health Sciences**

### **Introduction to Health Occupations**

**Elective Credit - 1**

**Pre-requisites: none**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is designed to create an awareness of career possibilities in health care and inform students of the educational options available for health science and health technology programs. Instruction includes beginning anatomy and physiology, medical terminology, medical ethics, diseases, and disorders. The course prepares students for the Basic Anatomy/Physiology course and/or for a variety of health technology programs.

### **Advanced Health Science**

**Elective Credit - 1**

**Pre-requisites: Introduction to Health Occupations**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is for students who have decided to pursue a career in healthcare which requires a minimum of an associate's degree. This course may articulate with a post-secondary institution and provide concurrent enrollment college credit for the students. Curricula may include health occupations professional essentials, technology-enhanced anatomy/physiology, case studies, health seminar practicum, or other curricula that provides students with an advanced experience in the health science field.



## **Anatomy & Physiology for Medical Professions**

**Science Credit - 1**

**Pre-requisites: Biology OR Introduction to Health Occupations**

**11<sup>th</sup>, 12<sup>th</sup>**

This course provides students with an in-depth study of health care careers including actual clinical experience in a variety of areas. Instruction includes basic anatomy and physiology, medical terminology, diseases and disorders, medical ethics, and first aid. The class is designed to prepare students for the advanced health science course and/or for a variety of health technology programs.

## **Medical Forensics/Medical Terminology**

**Elective Credit - 1**

**Pre-requisites: Introduction to Health Occupations**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is designed to create an awareness of the branch of health science relating to medical forensics and to understand the Greek- and Latin- based language of medicine and healthcare. This course focuses on introductory skills and assessment in order to develop the ability to identify, analyze, and process logically using deductive reasoning and problem solving, as well as the proper pronunciation, spelling, and usage of medical terminology.

Medical forensics involves many aspects of health science instruction including laboratory skills and safety, microscopy, toxicology, measurement, physical evidence identification, pathology, anthropology, entomology, psychology, blood spatter analysis, and career exploration.

## **STEM – Science, Technology, Engineering and Math**

### **Digital Multi-Media**

**Elective Credit - 1**

**Pre-requisite: None**

**\*Course Fee: \$30**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Students will learn how to take professional quality photos, while operating a professional DSLR camera. Digital design will focus on applying these tools to business applications. Students are introduced to Adobe's Creative Suite using at least three of the industry standard programs in multimedia, design, and web animation. Students work with InDesign, Photoshop, and Adobe Premiere. The course covers the background, fundamental concepts, and essential skills required for beginning multimedia designers to create compelling meaningful content for the web, print, and business. Students learn the tools, technologies and terminology to prepare them for further study in web illustration, animation, video, or digital photo manipulation or editing.



## **Introduction to STEM**

**Elective Credit – 1**

**Pre-requisites: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

STEM stands for Science, Technology, Engineering and Math and includes IT as well. Student will cover the explanation of information technology theory and computer hardware basics. The course ensures knowledge of PC components, functionality, compatibility and related technology topics. How computers work and the extents of what they are used for will be covered in this course. Students will also get some hands on experience with Microsoft software used in all industries. Students will learn how to professionally conduct themselves in their digital spaces. Students will also get introduced to engineering processes and disciplines. They will explore the career opportunities that are available to them in STEM.

## **Engineering Fundamentals/ 3D CAD Design**

**Elective Credit – 1**

**Pre-requisites: Intro to STEM**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Students will be re-introduced to engineering in the course. They will gain a deeper level of understanding of the engineering design cycle by using it for group projects. This course will be a project based course that will give students experience working in engineering teams to solve real-world problems. Within this course, students will learn to use 3D CAD Design tools. They will incorporate their 3D Design skills to help them solve the problems within their projects. They will also learn the basics of electronic circuit design. They will explore the career opportunities that are available to them in Engineering.

## **Advanced Engineering/Robotics**

**Elective Credit – 1**

**Pre-requisites: Engineering Fundamentals/3D CAD Design**

**Co-requisites: Algebra 2**

**11<sup>th</sup>, 12<sup>th</sup>**

Students will take engineering a step further and incorporate the math and science they have learned into designing solutions to specific problems. Students will learn how to utilize their math and scientific skills for real world problems. They will take trigonometry and physics knowledge and apply that knowledge to solve static and dynamic problems. They will also learn the basics of robotics so that they are able to take their knowledge of basic circuit design and combine it with their 3D CAD Design skills to create robotics based projects. They will also learn the basics of project management.

## **Engineering Capstone**

**Elective Credit – 1**

**Pre-requisites: Advanced Engineering/Robotics**

**12<sup>th</sup>**

Students will take on a yearlong engineering project as a capstone to their engineering courses throughout the high school. These students will come up with real-world problems they would like to solve within certain parameters. They will have the entire year to solve the problem, following the engineering cycle and self-set deadlines. They will learn about concept selection, project planning, project execution, and project evaluation.



### **Computer Programming**

**Elective Credit – 1**

**Pre-requisite: Intro to STEM**

**Co-requisite: Algebra 1**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Students will learn how to program computers. Starting at the basics, students will learn what computer programming can be used for and how it works. They will learn how to program computers and other programmable devices. They will gain an understanding of the power of programming skills and consequences for misusing this power. They will explore the career opportunities that are available to them using computer programming.

### **Video Game Design**

**Elective Credit – 1**

**Pre-requisites: Computer Programming**

**11<sup>th</sup>, 12<sup>th</sup>**

Students will learn how to design video games and animations. Building on their knowledge of computer programming students will learn object-oriented programming skills. They will create playable video games of their own using professional game design tools. Students will also learn important concepts for any design-based careers, including design, marketing, and testing concepts as well as project management.

### **Advanced Video Game Design**

**Elective Credit – 1**

**Pre-requisite: Video Game Design**

**12<sup>th</sup>**

Student will take on a yearlong video game design project as a capstone to their video game design and computer programming courses throughout high school. These students will come up with a video game to build within certain parameters. They will have the entire year to build the video game, following the design cycle and self-set deadlines. They will learn about concept selection, project planning, project execution, and project evaluation.

## **Agriscience**

### **Intro to Ag**

**Elective Credit – 1**

**Pre-requisite: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course is an introductory course designed to expose students to different facets of FFA and the agriculture industry. Students will gain knowledge in animal science, plant science, leadership skills, public speaking, FFA opportunities, and agricultural technology. Instruction and student learning will occur through lectures, student projects, group discussions, hands on experiences, FFA experiences, CDE participation, and their SAE program.



## **Ag 2/ Business & Marketing**

**CTE Credit – 1**

**Pre-requisite: Intro to Ag**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

CTE Economics/Agribusiness Management courses provide students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. These courses may cover topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other possible topics include developing a business plan, employee/employer relations, problem-solving and decision making, commodities, and building leadership skills. These courses may also incorporate a survey of the careers within the agricultural industry.

## **Animal Science**

**Science or Elective Credit – 1**

**Pre-requisite: None**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Courses impart information about the care and management of domestic and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study a particular species (swine, cattle, horses, fowl, sheep, and so on), or they may learn how to care for and maintain livestock as a more inclusive study.

## **Natural Resources Management/Wildlife Management**

**Elective Credit – 1**

**Pre-requisite: None**

**9<sup>th</sup>-10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

Natural resources management courses combine the fields of ecology and conservation with planning for the efficient use and preservation of land, water, wildlife, and forests. Within the general area of natural resources management, these courses usually cover specific topics and uses, such as hunting or fishing preserves, forest production and management, wildlife preservation, and human outdoor recreation. Often with an emphasis on the conservation of natural resources and frequently including outdoor recreation topics, wildlife management courses provide students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. Wildlife management courses emphasize how humans and animals may both take advantage of the same land or how to gain economic benefits from the land while not degrading its natural resources or depleting plant or animal populations.

## **Leadership**

**Elective Credit-1**

**Prerequisites: None**

**9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This class is designed to teach students leadership skills that will be important to their futures—regardless of career goals. This class teaches several basic skills identified as crucial for success. These skills include problem solving and creative thinking; self-esteem, goal setting, and motivation; interpersonal skills and team work; and situational leadership and communication. The class emphasizes small group work and hands-on experiences. Students will also learn about the different styles of leadership. Opportunity to develop CTSO skills and structure will be available.



## **Career Enrollment Options**

### **Introduction to Law Enforcement**

**Elective Credit – 1**

**Pre-requisite: None**

**9<sup>th</sup> 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course will introduce students to the basic functions and responsibilities of the criminal justice system focusing most specifically on law enforcement. It will provide them with a glimpse into the realm of law enforcement providing them with a view into a criminal justice career. Course topics include the history of law enforcement in the United States, search and seizure, use of force, crime scene collection, physical fitness for law enforcement, and the influences of high profile cases on law enforcement policies, training and equipment. The students will meet and hear from numerous members of the criminal justice system including judges, attorneys, victim advocates, and law enforcement personnel. Guest speakers will come from local, state, and federal agencies including U.S. Marshal's Office, Homeland Security, FBI, the U.S. Attorney's Office, Colorado Bureau of Investigations, Colorado State Patrol, Colorado Department of Parole, La Plata County Sheriff's Office SWAT and K-9, Durango Police Department, and the Bayfield Marshal's Office just to name a few. Even if the student chooses not to pursue a career in criminal justice, they will leave with valuable knowledge and a better understanding pertaining to good citizenship, their civic responsibilities as a citizen, and becoming a productive member of society.

### **Advanced Law Enforcement**

**Elective Credit – 1**

**Pre-requisite: Introduction to Law Enforcement**

**10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>**

This course will build upon previous learning and challenge students analyze and synthesize the criminal justice environment. Leadership opportunities will be available.

### **Internship**

**Elective Credit – 1**

**Pre-requisite: Current ICAP, Completed CTE Credit, Counselor/Principal Approval**

**11<sup>th</sup>, 12<sup>th</sup>**



**Career Concurrent Enrollment Opportunities  
Available through San Juan College  
Additional application and  
admission policies apply  
For full descriptions visit [www.sanjuancollege.edu](http://www.sanjuancollege.edu)**

**Building/Construction Trades**  
Elective Credit – 1  
Pre-requisites – None  
11<sup>th</sup>, 12<sup>th</sup>

**Cosmetology**  
Elective Credit – 1  
Pre-requisites – None  
11<sup>th</sup>, 12<sup>th</sup>

**Welding**  
Elective Credit – 1  
Pre-requisites – None  
11<sup>th</sup>, 12<sup>th</sup>

**Automotive Technician**  
Elective Credit – 1  
Pre-requisites – None  
11<sup>th</sup>, 12<sup>th</sup>

**Emergency Medical Responder**  
Elective Credit – 1  
Pre-requisites – None  
11<sup>th</sup>, 12<sup>th</sup>