



Calhan District RJ-1

High School Course Catalog 2019-2020

PROMOTING HIGH STANDARDS
AND SOCIAL RESPONSIBILITY

WWW.CALHANSCHOOL.ORG

Planning for Career & College

GRADUATION REQUIREMENTS

(Regular Diploma)

A total of 26 credits must be earned in order to receive a Calhan High School Diploma. Students are able to receive 8 credits per year with 4 credits being obtained each semester, through successful completion (D or better) per course.

In addition to receiving 26 credits for regular diploma or 28 credits of the honors diploma, students must demonstrate academic proficiency by receiving a qualifying score in math and English on a minimum of 1 state approved test.

Credits (Regular Diploma)

Course Requirements	Credit Requirement
<i>1 semester = .5 credit</i>	
• English	4
• Social Studies	3
<i>(Must include 1 credit American History & .5 credit in Civics)</i>	
• Science	4
• Math	4
• Computer Applications	.5
• Physical Education	1
• Health	1
• Electives	8.5
<i>All credits earned in excess of the requirement in any subject area will count toward the "Elective" requirement.</i>	

GRADUATION REQUIREMENTS

(Honors Diploma)

A total of 28 credits must be earned in order to receive a Calhan High School Diploma with the Honors endorsement. In addition to the required 26 credits, students must also have taken a minimum of 2 AP courses, 1 year of fine arts, 50 hours of community service and complete a senior project. Students in the running for Valedictorian or Salutatorian must complete the requirements for the Honors Diploma.

Credits (Honors Diploma)

Course Requirements	Credit Requirement
<i>1 semester = .5 credit</i>	
• English	4
• Social Studies	3
<i>(Must include 1 credit American History & .5 credit in Civics)</i>	
• Science	4
• Math	4
• Computer Applications	.5
• Physical Education	1
• Health	1
• Fine Arts	1
• Electives	8.5
• Community Service (50 Hours)	.5
• Senior Project	.5

GRADUATION REQUIREMENTS

(Career and Technical Diploma)

Students wanting the Career and Technical endorsement must complete the following requirements in addition to the standard 26 credit hour required.

- Must complete 2 years of the AVP Program with grades of B or better. Programs may be either one 2 year program or two 1 year programs.
- Successful completion of 8 hours job shadowing in their specific AVP area of study.
 - Job shadow must be pre-approved
 - Accountability form for job shadow must be completed
 - Senior project which must include detailed report of job shadow experience.

GRADING SCALE

All regular education courses are weighted on a 4.0 scale and Advanced Placement (AP) courses on a 5.0 scale.

- A - 90-100%
- B - 80-89%
- C - 70-79%
- D - 60-69%
- F - 59% and below

COLLEGE AND CAREER-READY DEMONSTRATIONS

Local school boards and districts select from the following menu to create a list of options that their students must use to show what they know or can do in order to graduate from high school, beginning with the graduating class of 2021. School districts may offer some or all of the state menu options, may raise a cut score on an included assessment and may add graduation requirements in other content areas. Calhan High School has adopted this requirement beginning with the graduating class of 2017. Students must demonstrate college or career readiness in English and Math based on at least one measure from the following assessment menu.

ACCUPLACER

English

62 on Reading Comprehension OR 70 on Sentence Skills

Math

61 on Elementary Algebra

Accuplacer is a computerized test that assesses reading, writing, math and computer skills. The results of the assessment, in conjunction with a student's academic background, goals and interests, are used by academic advisors and counselors to place students in college courses that match their skill level.

ACT

English

18 on ACT English

Math

19 on ACT Math

ACT is a national college admissions exam. It measures four subjects- English, reading math and science. The highest possible score on each subject is 36.

SAT

English

470

Math

500

The SAT is a college entrance exam that is accepted or required at nearly all four year colleges and universities in the U.S. The current SAT includes sections on reading, writing and math. The highest possible score for each section is 800.

ADVANCED PLACEMENT (AP)

English

2

Math

2

AP exams test students' ability to perform at a college level. Districts choose which AP exams will fulfill this menu option. Scores range from 1 to 5 (highest).

ASVAB

English

31

Math

31

The Armed Services Vocational Aptitude Battery (ASVAB) is a comprehensive test that helps determine students' eligibility and suitability for careers in the military. Students who score at least 31 are eligible for service (along with other standards that include physical condition and personal conduct). Students who take the ASVAB are NOT required to enlist in the military.

CONCURRENT ENROLLMENT

English

Passing grade per district and higher education policy

Math

Passing grade per district and higher education policy.

Concurrent enrollment provides students the opportunity to enroll in postsecondary courses, simultaneously earning high school and college credit. School districts and institutions of higher education each determine passing grades for credit and concurrent enrollment. An eligible concurrent enrollment course is 1) the prerequisite directly prior to a credit bearing course or 2) a credit bearing course.

ACT WorkKeys- National Career Readiness Certificate

English

Bronze or higher

Math

Bronze or higher

ACT WorkKeys is an assessment that tests students' job skills in applied reading, writing and math and 21st century skills. Scores are based on job profiles that help employers select, hire, train, develop and retain a high performance workforce. Students who score at the bronze level (at least 3) in applied math, mapping and reading earn the ACT's National Career Readiness Certificate.

DISTRICT CAPSTONE

English

Individualized

Math

Individualized

A capstone is the culminating exhibition of a student's project or experience that demonstrates academic and intellectual learning. Capstone projects are district determined and often include a portfolio of a student's best work.

INDUSTRY CERTIFICATE

English

Individualized

Math

Individualized

Industry certificates are credentials recognized by business and industry. They are district determined, measure a student's competency in an occupation and they validate a knowledge base and skills that show mastery in a particular industry.

COLLABORATIVELY DEVELOPED, STANDARDS-BASED PERFORMANCE ASSESSMENT

English

State-wide scoring criteria

Math

State-wide scoring criteria

NCAA ELIGIBILITY

Introductory information is available below on NCAA and eligibility for student-athletes. For additional information, particularly with regard to GPA requirements, see <http://www.eligibilitycenter.org>

CORE COURSES

- NCAA Division will require 16 core courses for students enrolling on or after August 1, 2018.

TEST SCORES

- Division I & II use a sliding scale to match SAT or ACT scores and core grade-point averages. The sliding scale for those requirements can be found at : <http://www.eligibilitycenter.org>
- The SAT scores used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a sum of the following four sections: English, mathematics, reading and science.
- When you register for SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.

GRADE POINT AVERAGE

- Be sure to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website: <http://www.eligibilitycenter.org>
Use the list as a guide.
- Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core grade-point average. Use the list as a guide.
- Division I & II core grade-point-average requirements are listed on a sliding scale on the NCAA Eligibility Center's website.
- Remember, the NCAA grade-point average is calculated using NCAA core courses only.

NCAA APPROVED COURSES

The following courses offered by Calhan High School are approved to meet NCAA Core Course Requirements.

ENGLISH

- English II
- English III
- English IV
- Creative Writing
- AP Language and Composition
- AP Literature and Composition

MATH

- Algebra I
- Algebra II
- Geometry
- Pre-Calculus
- Statistics
- AP Calculus (AB)
- AP Calculus (BC)

SCIENCE

- Earth Science
- Astronomy
- Biology I
- Biology II
- Chemistry
- Physics
- Anatomy & Physiology
- AP Biology
- AP Chemistry
- AP Environmental Science

SOCIAL SCIENCE

- American History
- World History
- Civics
- Economics
- Psychology
- AP US History

ADDITIONAL

- Spanish I
- Spanish II
- Spanish III
- Spanish IV
- AP Music Theory
- AP Computer Applications
- AP 3D Art

COLLEGE ENTRANCE EXAMS

AMERICAN COLLEGE TEST (ACT)

The ACT is an achievement test emphasizing analytical thinking and problem-solving skills. Scores are given in English, math, reading and science reasoning. The score range is from 1-36. The test is administered six times a year at various locations throughout the Pikes Peak region. Students may take the test as many times as they would like, beginning their junior year. Colleges vary on score reporting, as some will take a student's highest score, while others take into account each test taken and calculate an average score. Historically, student scores tend to go up with each test taken. More information can be found at: <http://www.actstudent.org>

SCHOLASTIC APTITUDE TEST (SAT)

The SAT test covers core content areas deemed essential for success in college-reading, mathematics and writing and language. The score range is from 560-1600. Calhan High School offers the SAT during the school day, once a year in the spring to all eleventh grade students. This college admission test is also administered on Saturdays, seven times a year at various locations throughout the Pikes Peak region. Students may take the test as many times as they would like, beginning their junior year. Colleges vary on score reporting, as some will take a student's highest score, while others take into account each test taken and calculate an average score. Historically, student scores tend to go up with each test taken. More information can be found at: <http://sat.collegeboard.org>

PSAT 8/9 and PSAT 10

The PSAT 8/9 establishes a Vaseline measurement of college and career readiness for students as they enter high school. The PSAT 8/9 tests the same skills and knowledge as the SAT and PSAT/NMSQT, in a way that makes sense for eighth and ninth graders. The test measures what students are currently learning and provides information on areas that need the most improvement. Calhan High School administers the PSAT 8/9, every Spring, to all ninth grade students, and the PSAT 10 to all tenth grade students.

PSAT/NMSQT

The Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) is a program cosponsored by the College Board and National Merit Scholarship Corporation (NMSC). When taken in the junior year, the PSAT is a qualifying test for the National Merit Scholarship competition. The PSAT/NMSQT is highly relevant for future success, as the focus is on content learned in high school and what is needed to succeed in college. The test serves as a check-in on student progress and pinpoints areas for development. The PSAT/NMSQT is administered once a year in October to any Sophomores and Juniors who express interest. More information can be found at: <http://www.collegeboard.org>

PROGRAMS

ADVANCED PLACEMENT (AP)

The Advanced Placement (AP) program is a cooperative endeavor that helps able high school student's complete college-level courses and permits colleges to evaluate, acknowledge and encourage that accomplishment through the granting of appropriate credit and/or placement. The AP program is a nationally recognized program and its policies are determined by representatives of the College Board member institutions and agencies throughout the country (public and private secondary schools, colleges and universities) and are implemented by the College Board. Advanced Placement exams are offered each spring during the second and third weeks in May. The AP Test score range is 1-5. Colleges award credits and/or advanced placement for students demonstrating subject proficiency by obtaining a score of 3 or higher. Additional information about the AP program <http://www.ap.collegeboard.org> Each course is one year and students are expected to complete the entire course. Students are also not permitted to begin an AP course at the beginning of second semester.

CAREER START

The Career Start program (formally known as AVP) is a partnership between Calhan High School, Pikes Peak Community College (PPCC) and the International Salon and Spa Academy (ISSA). The Career Start program allows for dual enrollment and provides students with the opportunity to gain college credits and/or begin working on industry certification, while in high school. Students interested in the Career Start program, should have a GPA of at least 3.0 and be on track to graduate. Calhan High School provides transportation and covers the cost for interested juniors and seniors. If a student is removed from the program or drops out of the program, they will be required to reimburse the school for the cost of tuition. Additionally, in order to receive college credit, students must pass all coursework with a grade of B or better. For more information, please contact your student's counselor.

SUMMER SCHOOL

Summer school is offered from June through August for students needing to make up credits from failed courses. Students are not permitted to take Summer School courses to get ahead or obtain additional credits. The summer school coursework is delivered through an online format and the cost is a flat fee per course. Students who do not complete their coursework will not be issued a refund. For more information and current cost, please contact your student's counselor.

ADVANCED PLACEMENT (AP) Guidelines and Expectations

The AP curriculum, administered by The College Board, consists of standardized high school courses that are equivalent to undergraduate college courses. After completing an AP class, students will take the AP exam in that subject, in which they can earn credits and accelerated placement in college. AP courses are also weighted on a 5.0 scale. Each course is one year and students are expected to complete the entire course. Students are also not permitted to begin an AP course at the beginning of second semester.

The following AP courses are offered by Calhan High School and are approved by the NCAA (unless noted). AP courses are subject to change on a yearly basis due to class enrollment numbers and demand. (* NCAA approved)

*AP Language and Composition

*AP Literature and Composition

*AP Biology

*AP Chemistry

*AP Environmental Science

*AP Calculus (AB)

*AP Calculus (BC)

*AP US History

AP Independent Music Theory & Composition

AP Computer Applications

- ALL AP Students will be required to take the AP test for their corresponding course/courses.
- There will be a new mandatory AP meeting for all students and their parents to receive the expectations of the AP program which include the testing requirement, financial obligation, and deadlines for payment and class withdrawal.

Important Dates

- August 14, 2019 6:00 PM - AP Parent Meeting
- August 23, 2019 - Deadline to Drop AP Course Without Penalty
- August 23, 2019 - AP Test Payment Deadline
- AP courses dropped after August 23, 2019 but prior to October 14, 2019 will result in a forfeiture of payment.
- AP courses dropped after October 14 will result in a forfeiture of payment AS WELL AS an "F" on the student transcript.
- At the beginning of the year, students enrolled in AP courses will be provided with a detailed syllabus outlining important course details such as: Timeline, Grading Policy, Attendance Policy, Test Expectations, Deadlines and Final Project.
- Course grades will be factored based on work outlined in the course syllabus. AP EXAM grades will not factor in to the course grade and will only be used to determine college credit as set by the College Board.

SCHEDULE CHANGES

Schedule changes to a student's schedule will be allowed for the first two weeks of the each school year. Schedule Change forms must be submitted electronically to the counseling department and can be found on the Calhan School main web page.

Students enrolling in year-long courses, as listed in the course catalog, will be required to complete the entire course and will not be permitted to drop the course at the end of a semester without teacher recommendation and administrative approval.

Student will not be permitted to enroll in year-long courses at the beginning of second semester unless they are required to make up the second semester due to previously receiving a failing grade and/or not meeting the requirement due to transfer from another school district.

Language Arts

ENGLISH I / GRAMMAR

DURATION:	Full Year
CREDIT:	1
GRADES:	9
PREREQUISITE:	None

This course explores basics composition and grammar. Students are expected to create fluent, grammatical sentences and clearly organized paragraphs. Students will explore literary texts, which will demand scrutiny and interpretation.

ENGLISH II / FRESHMAN ENGLISH

DURATION:	Full Year
CREDIT:	1
GRADES:	9
PREREQUISITE:	None

This course is a freshman level course that explores basic paragraph structure, sentence fluency, and literary themes. Students will use research to answer questions which demand high quality reasoning. Students will explore literary texts of increasing difficulty which will demand scrutiny and interpretation.

ENGLISH III

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This course is a sophomore level course that expands on the concepts presented in English 2. Students must write formal compositions. Students must be able to use research as a means to answer a question, find a solution, and share findings. Students will explore organizational writing patterns that inform or persuade the intended audience. Students will read literature from various cultures and genres and explore historical and cultural influences on the texts intended meaning. Students will also begin the study of ideas and concepts explored in non-fiction.

ENGLISH IV

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	None

This course is a junior level course, which expands on the concepts presented in English 3. Students must write critical essays that explore advanced argumentation. Students must have a strong understanding of grammar and reflect this understanding in writing. Students will explore organizational writing patterns that inform or persuade the intended audience. Students will read literature from various cultures and genres and explore historical and cultural influences on the texts intended meaning. Students will continue the study of ideas and concepts explored in non-fiction and the roll evidence, structure, and style play in the development of intellectual thought.

ENGLISH VII / CREATIVE WRITING

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	None

Creative writing is a class design for students who have an advanced understanding of compositional strategies and can apply these understandings to creative writing. Creative writing allows students to explore grammar and composition as a means to create or control meaning. Students will study contemporary authors and produce projects that explore the current state of contemporary, local writing.

AP LANGUAGE AND COMPOSITION

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Teacher recommendation or grade of B or better in Freshman and Sophomore English

Advanced Placement Language and Composition is an upper-level course that focuses on nonfiction and writing. The students prepare for the A.P. Language test by developing their close-reading and analytical skills. Unlike other English classes that focus on literary analysis, the students learn to perform rhetorical analysis in order to identify and apply the techniques used by writers in the public sphere. They learn to compare texts on similar themes in order to synthesize them into an original argument. They also learn to develop their skills in the area of persuasion and argumentation by writing and engaging in debates. By the end of A.P. Language and Composition the students will have the prerequisite skills to enter Advance Placement English Literature.

AP LITERATURE AND COMPOSITION

DURATION:	Full Year
CREDIT:	1
GRADES:	12
PREREQUISITE:	Teacher recommendation or grade of B or better in Freshman and Sophomore English

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone.

Mathematics

ALGEBRA I

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This course meets Algebra I Focal Point Curriculum as approved by the district. Topics covered in this class include real number operations, dimension analysis, writing and solving single variable equations and inequalities, solving for a given variable, investigating functions and notation, writing and graphing linear functions and inequalities, writing and solving systems of equations and inequalities in two variables, polynomial operations, writing and graphing quadratic and exponential functions, solving quadratic equations, interpreting quadratic function graphs, properties of exponents including rational exponents, box plots, measures of central tendency, scatter plots and lines of best fit, and data correlation.

GEOMETRY

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	Completion of Algebra I receiving a B or better.

This course meets Geometry Focal Point Curriculum as approved by the district. Topics covered in this class include defining geometric terms, reasoning and proofs (involving segments, angles, triangles, and quadrilaterals), angle relationships (supplementary, complementary, and involving parallel lines cut by a transversal), polygon similarity (including scale factor and triangle similarity proofs), right triangle trigonometry, non-right triangle trigonometry, properties and proofs of quadrilaterals, transformations on a coordinate plane, properties of circles (tangents, arc measures and lengths, chords, inscribed angles and polygons, converting between radians and degrees, and area of sectors), writing equations of circles, areas of polygons (including using trigonometry), surface area and volume of 3-dimensional objects, probability (sample space, dependent and independent events, simple and compound events)

INTEGRATED MATH- ALGEBRA II / GEOMETRY

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Any student receiving lower than a B in Geometry. This class can be taken concurrently with Geometry for any student receiving lower than a C in Algebra I.

This integrated math course includes major topics such as: operations with whole numbers, solving equations, including quadratic equations, geometric reasoning, similarities and congruencies, probability, statistics, transformations, and trigonometry.

ALGEBRA II

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	Successful completion of Algebra I and/or Geometry receiving a B or better. Any student who fails 1 st semester Algebra II will be moved to Intermediate Algebra for the remainder of the year as long as they have not previously taken that course. This course can be taken concurrently with Geometry for students receiving an A in Algebra I or with teacher recommendation.

This course meets Algebra II Focal Point Curriculum as approved by the district. Topics covered in this class include complex number operations, solving quadratics involving complex solutions, graphing and writing equations for quadratic functions, multiplying and dividing rational expressions, polynomial long division, synthetic division, using properties of exponents to solve rational and radical equations in one variable, solve and interpret systems of equations, identify and graph non-linear functions, function operations and compositions, writing and graphing inverse functions, properties and operations of logarithms, graphing trigonometric functions, converting between radian measure and degrees, the unit circle, Pythagorean Identity, arithmetic and geometric sequences and series including summations, standard deviation and normal distributions, and margins of error.

PERSONAL FINANCE

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Successful completion of Algebra II, or completion of Geometry receiving a C or higher, or completion of Intermediate Algebra receiving a C or higher.

This course can be counted as math credit or elective credit towards graduation. Topics covered in this class include types of pay (hourly, salary, commission), payroll deductions, budgets, credit and credit cards, bank accounts (checking, savings, online banking), loans and financing, insurances (vehicle, renter, homeowner, medical, life), investing, and retirement.

PRE-CALCULUS

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Geometry AND Algebra II receiving a B or better in both classes.

This course is an upper level mathematics course. Topics covered in this class include solving and graphing linear, quadratic, polynomial and exponential functions; trigonometry; systems of equations; matrices; probability and series; advanced geometry; and a number sense review (working with fractions, decimals, percent, integers, exponents, logarithms, and order of operations).

AP CALCULUS (AB)

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Pre-Calculus, receiving a B or better.

This course is an upper level college mathematics course. Topics covered in this class include limits, differentiation, integration and applications of derivatives and integrals. Students will take the AP exam in May. A proficient score (3 or higher out of 5) can be used as college credit (up to one semester of math credit).

AP CALCULUS (BC)

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	AP Calculus (AB), receiving a B or better.

This course is the follow-on to AP Calculus (AB). It is the equivalent of 2 semesters of college calculus. It includes ALL topics from AP Calculus (AB) plus advanced integration techniques, series and sequences, and parametric and polar equations. Students will take the AP exam in May. A proficient score (3 or higher out of 5) can be used as college credit (up to one full year of math credit).

SCIENCE

EARTH SCIENCE

DURATION:	Full Year
CREDIT:	1
GRADES:	9
PREREQUISITE:	None

The discipline of science specifically concerned with the Earth's formation, natural constructive and destructive processes, and its place in the universe. Students in Earth Science study mapping, rocks and minerals, plate tectonics, volcanoes, weather and the atmosphere and Earth's Oceans. Students also learn about the fossil record and geologic time. Upon completion of the course students have a much greater understanding and appreciation for the processes that shape the Earth and how these processes affect our everyday lives.

ASTRONOMY

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

The study of the stars and planets. Students in astronomy study a wide range of theories and are asked to do research into contemporary developments with regard to the study of space, space travel and scientific exploration. Upon completion of the course, students gain a much better appreciation of the universe and how it works. Students also gain valuable experience in problem solving.

MARINE BIOLOGY

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This class examines marine life and marine processes. The marine environment is the largest, most important, and most mysterious habitat on Earth. Our oceans contains more than 99 percent of the world's living space, produces half of its oxygen, plays a critical role in regulating its climate, and supports a remarkably diverse and exquisitely adapted array of life forms. This year long course examines all aspects of the marine environment from fish identification to examining life under the polar ice caps. It is project based with an emphasis on critical thinking beyond simple memorization of facts.

BIOLOGY

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	None

This class is an introduction to all life sciences that helps students learn the common characteristics of all organisms. The themes include: Scientific method, basics of chemistry to understand biological molecules, levels of organization from cells to complete organism, homeostasis, understanding of the genetic material and what governs traits, the passing of traits from parent to offspring and to understand why we look the way we do, exploring our environment and understanding the relationship the living has with the nonliving, the study of the human body and how it functions.

CHEMISTRY

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	None

This class continues the application of the scientific method, a study of the SI system, dimensional analysis, density, physical and chemical properties of matter, formulas, gas laws, chemistry nomenclature, stoichiometry, and periodic properties, experimentation with data collection. Students will use these concepts in a variety of lab experiments. Students need to have a good background in math concepts to deal with the mathematical concepts that are presented throughout the year.

ANATOMY & PHYSIOLOGY

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	None

Anatomy and physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will also learn the mechanisms for maintaining homeostasis within the human body. This course will involve laboratory activities, projects, dissections, textbook material, models, diagrams, and clinical studies.

AP ENVIRONMENTAL SCIENCE

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Biology I

The AP Environmental Science course is a full-year course designed to be the equivalent of a one-semester, introductory college course in environmental science. The AP Environmental Science course has been developed to be a rigorous science class that stresses scientific principles and analysis. It is intended to enable students to undertake, as first-year college students, a more advanced study of topics in environmental science. In both breadth and level of detail, the content of the course reflects what is found in many introductory college courses in environmental science.

AP CHEMISTRY

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Passing grade of B or better in Chemistry

This is a first year general college course that will present concepts in the following: measurements and dimensional analysis, structure of the atom and atomic theory, chemistry nomenclature, stoichiometry, reactions in aqueous solutions, gases laws, thermo chemistry, electron configuration, periodic relationships, chemical bonding molecular geometry and hybridization, equilibrium, gas laws, kinetics and electrochemistry. The class will also include chemistry labs to reinforce chemistry concepts.

AP BIOLOGY

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Passing grade of B or better in Biology

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes—energy and communication, genetics, information transfer, ecology, and interactions.

SOCIAL STUDIES

AMERICAN HISTORY

DURATION:	Full Year
CREDIT:	1
GRADES:	9
PREREQUISITE:	None

This course will provide an introduction to the major forces, events, and individuals that shaped the historical development of the American society, beginning with the pre-Columbian civilizations and concluding with the Civil War/Reconstruction. This course will cover topics on economics, society, politics, intellectual history, geography, and art. Throughout this course students will develop an understanding of how people view, construct, and interpret history and will analyze key historical periods and patterns of change over time within and across nations and cultures. This class or an equivalent such as College American History is required for graduation. Students will use the historical method of inquiry to ask questions, evaluate primary and secondary sources, critically analyze and interpret data, and develop interpretations defended by evidence. The students will be able to explain the key concepts of continuity and change, cause and effect, complexity, unity and diversity over time. Students will understand the significance of ideas as powerful forces throughout history. They will be able to evaluate the implications of geography on society, explain and interpret geographic variables that influence the interactions of people, places and environments and utilize geography to understand the interconnected nature of the world, its people and places.

WORLD HISTORY

DURATION:	Full Year
CREDIT:	1
GRADES:	10
PREREQUISITE:	None

This course will provide a survey of the history of the World from the prehistoric era, to the ancient Mediterranean civilizations, rise of Asian cultures, and finally through the birth of Europe and the modern world. This course covers topics on economics, society, politics, intellectual history, geography and art. Students will use the historical method of inquiry to ask questions, evaluate primary and secondary sources, critically analyze and interpret data, and develop interpretations defended by evidence. The students will be able to explain the key concepts of continuity and change, cause and effect, complexity, unity and diversity over time. Students will understand the significance of ideas as powerful forces throughout history. They will be able to evaluate the implications of geography on society, explain and interpret geographic variables that influence the interactions of people, places and environments and utilize geography to understand the interconnected nature of the world, its people and places.

CIVICS

DURATION:	1 Semester
CREDIT:	.5
GRADES:	11, 12
PREREQUISITE:	None

Civics provides a comprehensive overview of the structure and functions of the U.S. government and political institutions. This course examines constitutional principles, the concepts of rights and responsibilities, the role of political parties, and the importance of civic participation in the democratic process. Students will study the major principles of the U.S. Constitution, and the founding documents and laws which shape the American political, social and legal framework. Students will learn about the structure of our federal system and the powers and responsibilities associated with Congress, the President, and the Supreme Court. Students will be given opportunities to learn the rights and the responsibilities associated with American citizenship. This course may examine the structure and function of state and local governments and may cover certain legal topics. Also, students will research, formulate positions and opinions, and engage in appropriate civic participation to address local, state, or national issues or policies. This course strives for students to be active participants in our democracy.

ECONOMICS

DURATION:	1 Semester
CREDIT:	.5
GRADES:	11, 12
PREREQUISITE:	None

This course provides students with an overview of economics with primary emphasis on the principles of microeconomics, macroeconomics and the U.S. economic system. The course may also cover topics such as international economics, and comparative economics. Economics may be presented in a relevant context, including economic application to current national or international events. In addition, this course will focus on personal finance including: savings, personal income, various money accounts, tax liabilities, investments, credit, and insurance. The EducationCents online program will reinforce these concepts. The Civics/Economics class is designed as the students' final preparation for their role as productive and active citizens in our democratic society. Students will be able to describe the fundamental concepts of constitutional government and civil rights, and apply the concepts to their personal lives. Students will demonstrate an understanding of the functions of a market economy and the role of government in economic decision making. Students will address the contemporary role of America as a global influence through the investigation of international policy and current issues.

AP AMERICAN HISTORY

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	World History

Designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials from the pre-Columbian era to the present. Students will learn to assess historical materials, their relevance to a given interpretive problem, reliability, and importance, and to weigh the evidence and interpretations presented in historical scholarship. Course should develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and

FOREIGN LANGUAGE

SPANISH I

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This is the springboard to learning and experiencing a foreign language and culture. Students will learn the alphabet, numbers, grammar, nouns (gender, number, and adjective agreement), verbs, common expressions and be exposed to Hispanic cultures.

SPANISH II

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Spanish I

Students will continue with Spanish language acquisition and knowledge of the Hispanic cultures. Nouns & Articles: gender, number, definite and indefinite. Adjectives: qualitative, quantitative, possessive and demonstrative. Numbers, dates, and time. Weather, calendar (days, months, seasons) and clocks. Verbs: indicative and imperative. Pronouns: subject, reflexive, direct object and indirect object. Negative words and construction. Interrogatives.

SPANISH III

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Successful completion of Spanish II

Students will continue with Spanish language acquisition and knowledge of the Hispanic cultures. Instruction will include reading novellas and studying Hispanic artists.

SPANISH IV

DURATION:	Full Year
CREDIT:	1
GRADES:	12
PREREQUISITE:	Successful completion of Spanish III

Progressively students will continue to study the Spanish language and the various cultures existing in Spanish speaking countries. Students will continue to expand their comprehension in Spanish and their ability to effectively communicate and think like a Spanish speaker. Also, students will advance their vocabulary and idiomatic expression abilities that will further enable students to communicate in Spanish. Students will explore the Spanish language through a variety of listening, reading, writing and speaking activities and/or projects. In addition to the language, students will also continue to explore and become familiar with the cultures represented in the various Spanish speaking countries.

AGRICULTURE

INTRO TO AGRICULTURE

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

An introduction to animal science, plant and soil science, agricultural mechanics, leadership and communication skills, FFA (which is a premier youth leadership organization), and they will develop a personal livestock, crop or work experience program will be developed and put into operation by each student called an SAE (Supervised Agricultural Experience). This class can count as a Science credit or elective.

FUNDAMENTALS OF AGRICULTURE

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	Successful completion of Intro to Agriculture

A course designed for second year agricultural education students who have taken Introduction to Agricultural Science. This class elaborates on Introduction to Agricultural Science topics and more emphasis on record keeping, leadership skills, and Career Development Event preparation.

AGRICULTURE ANIMAL SCIENCE

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Intro to Agriculture

Course for students interested in livestock selection, nutrition, reproduction, genetics, and management of horses, cattle, sheep, goats, poultry, and swine. Includes animal anatomy and physiology, diseases, parasites, animal behavior and environment, and carcass evaluation, grading, and cuts of meat.

This class can count as a Science credit or elective.

AGRICULTURE PLANT AND SOIL SCIENCE

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Intro to Agriculture

A course for students interested in horticulture, agronomy, ecosystems, plant cells, plant physiology and growth, plant reproduction and genetics, environmental factors, soils, soil management, and plant science technology, they will be a member of FFA, and develop a personal livestock, crop or work experience program will be developed and put into operation by each student called an SAE (Supervised Agricultural Experience).

This class can count as a Science credit or elective.

FINE ARTS

ART

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This class gives the student basic knowledge of the different artistic skills. First semester is two dimensional and second semester is three dimensional media and techniques like pastels, graphite, still lives and portraiture are used first semester and like clay, paper mache, and sculpture and wheel throwing are used second semester. This class is a project based class and is very demanding.

CERAMICS

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This course focuses on basic techniques for making creative ceramic pieces. Students learn basic formation techniques: pinch, coiling, slab and wheel throwing, decoration, glazing, and firing procedures. Slip pouring into molds is not part of the ceramics course. Instruction in wheel throwing and more complex techniques is given individually. Students study historic works and make original pieces based on research.

BAND

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

The High School Band consists of the 9th through 12th grades. The High School Band is open to all individuals that know how to or want to learn to play a band instrument in an ensemble. The ability level will vary widely from the freshman to the senior and in this setting the older students will be good examples to the younger students by performing at full capacity. Fundamentals will be addressed in class along with advanced technique exercises and a concentration on a professional level tone quality and a fully balanced band sound. The music will be challenging and rewarding. The student will still have the opportunity to play in the pep band. Regular practice is expected. Playing exams will be given. The students will demonstrate their skills at one concert per semester and sporting events.

CHOIR

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This is a performance-based music class. Students will build vocal strength through appropriate warm-ups and techniques, sight-singing, music theory and terminology, music history and singing a wide variety of songs in various languages. Students will sing in unison, two and three parts. Each semester will culminate in a concert for friends and family. Other performances throughout the year, including solo/ensemble competition, and BFL vocal clinic will also be a part of this course.

DRAMA

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

Students will develop and enhance acting techniques, including character work, body movement, improvisation, technical theatre roles, expressive speech and stage vocabulary. Throughout the semester students will learn through a variety of acting exercises, skits, and short scenes. Students will also learn about technical theatre and be responsible for behind-the-scenes work for performance. Each semester will culminate in a scripted performance after school. Fall semester will be a play. Spring semester will be a musical.

COMPUTER APPLICATIONS

COMPUTER APPLICATIONS

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This course covers the theory and concepts necessary for basic computer literacy. An emphasis is placed on data input/output operations and software/hardware developments as they relate to business information systems including hands-on with a microcomputer and introduction to microcomputers with word processing, web design, spreadsheet, communications, and database applications software.

AP COMPUTER APPLICATIONS

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Computer Applications

AP Computer Science provides students with a critical lens for interpreting the world around them. *Computer Science* prepares all students to be active and informed contributors to our increasingly technological society whether they pursue careers in technology or not. *Computer Science* can be life-changing, not just skill training. This course will feature many “unplugged” activities to be completed away from the computer, however daily access to a computer will be essential for every student. It is not required that students have access to internet-connected computers at home, but because almost all of the materials are online, it is certainly an advantage.

PHYSICAL EDUCATION & HEALTH

PHYSICAL EDUCATION

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This class is a combination of team sports, individual sports, and fitness. Students will be required to participate daily, dress out daily, write occasional papers on sports, and take tests over what they have learned and participated in. No pre-requisites just a great attitude and a willingness to try different activities/sports!

STRENGTH & CONDITIONING

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

Athletic Improvement -This class is for the student looking to improve their athletic achievement through the use of weightlifting, stretching, plyometrics, and speed building activities. Students must keep accurate records of their lifts and improvements throughout the entire course. Due to the nature of high school physical education classes being primarily participation classes, it is highly important for a student to be in attendance and participating in the class. If a student is not in attendance of class, or unable to participate, for any reason, other than a school activity, his/her grades will be effected for lack of participation. Only students that are committed to improving should take this class.

HEALTH

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	None

This required class covers a wide variety of health issues and concerns. The main focus is placed upon personal and social responsibility, drug education, and WAIT training. The WAIT training education does require parental permission. If a parent of the student does not want their child to participate in that section, arrangements can be made for the student to fulfill their health requirement by way of research papers.

ELECTIVES

FRESHMAN SEMINAR

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	None

This required class is designed to teach freshmen the skills needed to transition from middle school to high school. They are to gain knowledge and understanding about different study skills and practices, organizational techniques, seminar days, working on ICAP's (Individual Career and Academic Plan) within their www.CollegeinColorado.org account and other pertinent information relating to human and social skills; so that each student can be successful in high school and beyond. Each student will develop an ICAP, in order to help them set goals through high school and increase their chances for success after graduation.

ARCHITECTURAL DESIGN

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This class is designed to introduce students the basics of house construction by using a balsa wood kit that has plans set for a 3/4" = 1" scale. Students learn to: dimension the lumber to the scale of real lumber used in construction, read house plan drawings, and use construction techniques. The kit students will use reinforces engineering technology, and math concepts as students build the scale house. Students will take what they learned and add to the house design a second story and a garage in which they will design and build. After completing their house they will construct a 10 x 12 shed using the same scale as their house.

YEARBOOK

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

Yearbook is designed to provide students with the skills necessary for the production and marketing of the school yearbook. Students develop skills in layout design, copywriting, editing, proofreading, advertising, marketing, sales, and business management.

ROCK BAND

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	None

Rock Band is an elective class in which students of varied skill levels work together to form a rock band. The students put together a series of sort live performances and work together to write original musical compositions. The class is designed for students with some previous musical experiences but is also open to beginners who are passionate about music and who are willing to dedicate their time outside of class to learning an instrument. The class builds upon the students' interests and strengths as they work as a team towards performance-based goals.

VIDEO PRODUCTION

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

Video Production is a chance to combine technology and your artistic side. In the course students will get hands on training in the use of HD Video Cameras and Apples' iMovie video editing program. Students are responsible for creating daily announcements, weekly features and the graduation video for seniors and promotion video for 8th grade ceremonies that take place at the end of the year.

ACCESS

DURATION:	Full Year – 4th Tuesday-Thursday
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

ACCESS will be assigned during 4th hour, Tuesday-Thursday, for each student to be used as a quiet study hall. Through ACCESS, student will be able to work independently on school work and/or "access" individual teachers to obtain additional support and homework help.

CREW

DURATION:	Full Year – 4th hour Friday's
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

Beginning in 9th grade, students will be assigned to a 4th hour CREW and remain with their same CREW leader and members through 12th grade. In CREW, students participate in non-academic activities and challenge events with their CREW members and compete against other CREW groups. Through CREW, students will learn about health competition in a fun and relaxed environment while building their strengths as a team. Additionally, CREWS will be required to complete one community service project together during the first semester and a challenge event during the second semester.