

Calhan District RJ-1

High School Course Catalog 2024-2025

Promoting High Standards and
Social Responsibility



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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.

Eastern Plains Career Accelerator (EPCA)

EASTERN PLAINS CAREER ACCELERATOR (EPCA)

The Eastern Plains Career Accelerator offers credit recovery combined with the possibility of vocational work experience through internships and other work study opportunities. Students may also choose to access the on-site business experience which includes training in sales, business financing, marketing, and management.

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.
- AP courses dropped after August 23, 2024 but prior to October 14, 2024 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 week 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

PURPOSE

The goal of the Calhan Secondary English / Language Arts department is to provide an education that develops competence in communication via all aspects of the English language by fostering a deep appreciation for the beauty, elegance, and complexity of language as it is expressed in culture through the written and spoken word.

COURSES

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

English III is a two-semester class that fulfills part of the English requirements for graduation. A student must pass this class in order to receive credit towards graduation, and students who do not pass English III usually retake the class the following year before moving on to English IV. English III is designed to develop reading and writing skills at a high school level. Students develop close reading strategies by engaging with a variety of literary works in different genres, including novels, articles, short stories, plays, and poetry. The class is structured around the current content standards for English and Language Arts. In this class, students will learn organization, presentation, and research strategies. They will develop their ability to collaborate effectively with their peers while developing their command of grammar, vocabulary, and mechanics.

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 / FILM CRITIQUE

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

Like other English classes, Creative Writing / Film Critique is designed to develop reading, writing, and rhetorical analysis skills.

Part 1: The first half of the class is the Creative Writing portion, which allows students to apply many of the skills they have acquired in previous English classes. The focus changes from the interpretation and analysis of literary devices to the application of them in their own creative compositions. Students in the Creative Writing class will focus on the planning and creation of short stories, drama, and poetry.

Part 2: The second half of the class is Film Critique. This class is modeled on a college course called Communications on a Theme / Film and Melodrama. It uses a variety of older eclectic films from across the world as a springboard for discussion and literary analysis. In this class, the students will apply a variety of tools to analyze and interpret films in order to perform a concise, in-depth analysis of a film. They will develop their command of grammar, vocabulary, and mechanics through the planning and development of formal written compositions.

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 English Language and Composition is a course that cultivates the reading and writing skills necessary for college success. Students are required to explore a wide-range of ideas from non-fiction. The course helps students become curious, critical, and responsive readers of a wide range of non-fiction texts, such as articles, essays, speeches, letters, polemics and works of philosophy. The students are taught to be reflective writers, who engage with diverse audiences for a variety of purposes. The course is designed to deepen and expand the students' understanding of how written language functions as a means of persuasion. It teaches them how to write and analyze evidence-based arguments and how to use texts to support specific claims. Much of the course is designed to help students enhance their performance on the final A.P. test, which is administered towards the end of second semester.

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 and successful completion of AP Language and Composition

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.

CE ENGLISH 102/103

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

Workshop on strategies for generating ideas for writing, for planning and organizing material, and for revising and editing; prepares students for the demands of college writing, focusing on reading critically and incorporating source material. Along with applied principles of expository and argumentative essay writing, including summaries, critiques, analysis, and syntheses of texts; inquiry, information literacy, and the research essay; strategies for invention, drafting, and thoughtful revision; emphasis on clear, concise, and vigorous prose.

CE CREATIVE WRITING

DURATION:	1 Semester
CREDIT:	.5
GRADES:	11, 12
PREREQUISITE:	Teacher recommendation or grade of B or better in Freshman and Sophomore English

An introduction to the basic techniques of writing fiction, poetry, and creative nonfiction. Models of each are studied, and students write and share pieces in each of these literary forms.

Mathematics

PURPOSE

A Calhan math student demonstrates basic number sense, makes informed financial decisions, understands data critically, and applies math to solve real world problems. Additionally, Calhan math students develop effective problem solving habits; are organized, prepared, and punctual for class; have the ability to communicate mathematical ideas; are willing to ask questions; and take pride in their work. In all math courses, instruction will reinforce the Calhan student traits of respect, integrity, confidence, choosing to succeed, not making excuses, and doing hard things.

COURSES

ALGEBRA I

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

This is a one-year course based on the Common Core Standards. It links topics and thinking from middle school to high school math in a coherent manner. The class will focus on fewer topics but will dive more deeply into those main topics. Those central algebra I topics are an introduction to three types of functions: linear, quadratic, and exponential. Students will examine these functions from an algebraic, graphical, numerical and verbal approach. The course will reinforce the aspects of rigor which are: conceptual understanding, procedural skills and fluency, and application.

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. 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:	None

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.

BUSINESS MATH

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

This course applies students' interpretation of basic mathematical concepts to common business usage covering such topics as percentages, interest, trade, bank and cash discounts, payroll, time value of money, and business loans.

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

PURPOSE

To create knowledgeable, scientifically literate problem solvers through developing an inquiry mindset by nurturing student's curiosity, and bringing current, relevant science content of real-world problems into the classroom.

COURSES

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 though out 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.

AEROSPACE

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

This is a year-long course that covers aerospace from the beginning of flight to rocket/jet propulsion. There are two options for this course, and this is option two. It is designed for those students who want a more hands-on approach to aviation which would include extensive simulator training, flying in helicopters, airplanes, possible indoor skydiving, museums, etc. The goal is to gain real-world experiences in the field of aerospace.

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 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.

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

SOCIAL STUDIES

PURPOSE

- To evaluate and synthesize information that students find, be objective in the review of it, and assess it for credibility and bias.
- To be tolerant, well-rounded, critical thinkers who understand that all individuals are not the same, don't think the same, and don't share the same life experiences.
- To be aware of and able to challenge a student's own confirmation bias or the tendency to reject information that disagrees with previously held assumptions, and to seek information that confirms previously held beliefs, biases, and judgments.
- To successfully communicate through self-evaluation for completion, understanding, and revision in written communication and multimedia presentations. Students should be able to clearly advocate their opinions and arguments with a cogent, logical structure.
- To be able to be resourceful in decision-making in all kinds of social situations, moral and ethical judgments, and have confidence in personal beliefs.

COURSES

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 Civics/Economics class is designed as the student's 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 UNITED STATES 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 evidence clearly and persuasively.

AP HUMAN GEOGRAPHY

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

Immerse yourself in AP Human Geography by investigating population trends, exploring diverse cultural landscapes, and identifying spatial patterns across various scales. From bustling cities to rural areas, you'll embark on a journey of discovery as you examine the diverse interactions that people have with the environment

CE PSYCHOLOGY

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

An introduction to psychology including research methodology, biological bases of behavior, human development, sensation, perception, intelligence, cognition, language, states of consciousness, learning, memory, motivation, emotion, personality, abnormal behavior and stress and health

FOREIGN LANGUAGE

PURPOSE

Foreign language education in Calhan School District RJ-1 is part of a commitment to the student to have the opportunity to gain access to all institutions of higher learning in Colorado and the United States. Foreign language education also provides the opportunity for the students, no matter what path is pursued, to become an active member of the world's global society.

Students will have the opportunity to study other cultures as they exist in our own American society and as they exist in our global society. Students will be immersed into the language, as well as the cultures of Spanish speaking countries. Students will explore the language and culture through a variety of teaching techniques which include, but are not limited to, texts, independent and small group explorations, discussions, research activities and projects, and videos.

While language mastery is a progression, some personal benefits may be realized immediately in this Spanish course. These benefits include:

- A better understanding of one's primary language
- Greater sensitivity to being a citizen of our global society
- Awareness of various cultures represented in our world
- The exposure to historical, artistic, musical, and creative achievement of people from other nations
- The pride of understanding a foreign language and the pleasure of communicating with others in the target language.

COURSES

SPANISH I

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

Students will be progressively introduced to the Spanish language and the various cultures existing in Spanish speaking countries. Students will learn the alphabet, numbers, grammar, verbs, nouns (gender, numbers, and adjective agreements), and common vocabulary and expressions that will 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 explore and become familiar with the cultures represented in the various Spanish speaking countries. Cultural studies will include the art, literature, customs and history of the Spanish-speaking people.

SPANISH II

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Spanish I with a 70% or better, or instructor approval.

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 intermediate 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. Spanish II will begin with level one topics for faster recall, better comprehension and greater accuracy.

SPANISH III

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Spanish II with a 70% or better, or instructor approval.

Students will build upon Level II material while learning more verb tenses and broadening their vocabulary. Spanish III focuses on complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and converse easily in various situations. Students will continue to engage in a variety of advanced listening, reading, writing and speaking activities and/or projects. Spanish III will begin with level two topics for faster recall, better comprehension and greater accuracy.

SPANISH IV

DURATION:	Full Year
CREDIT:	1
GRADES:	12
PREREQUISITE:	Successful completion of Spanish III with a 70% or better, or instructor approval.

Students will be completely immersed in the Spanish language and culture. Spanish IV focuses on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain native conversations with sufficient and relevant vocabulary with acceptable accent. The course also focuses on students having sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary. Level IV students build on Level III material while continuing to study more complex grammar and broaden their vocabulary. Students will read, analyze and interact with authentic texts. They will demonstrate increased speaking and writing via presentations, compositions, assessments and other activities.

FINE ARTS

PURPOSE

Students who participate in Calhan fine arts will develop teamwork skills, critical thinking, self confidence, appreciation and acceptance of others, and an understanding of past and present world cultures.

COURSES

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 lifes 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.

ROCK BAND

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

Rock Band is a year long class for students interested in performing music with others. The goal of the class is for students to contribute their skills and passion to a small group of students as they work towards building and developing an informal musical band. The students are expected to explore a variety of roles within the band and to develop their skills over time. The only prerequisite for the class is a passion for music and a willingness to grow.

CHOIR

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

Choir class is designed to expose students to the world of choral music while developing individual vocal and musical abilities. Students explore singing through a variety of choral repertoire including foreign language texts, genres and musical periods. Students are introduced to basic music theory.

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.

AGRICULTURE

PURPOSE

Agricultural, Food, and Natural Resources (AFNR) education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. AFNR Education instruction is delivered through three major components:

Classroom/Lab Instruction

Agricultural education is a systematic program of instruction available to students desiring to learn about the science, business, technology of plant and animal production and/or about the environmental and natural resources systems.

Supervised Agricultural Experience

Students with a Supervised Agricultural Experience (SAE) learn by doing. With help from their AFNR teachers, students develop an SAE project based on their desire to develop technical skills through work-based learning experiences in a real workplace setting.

FFA

FFA is a dynamic youth organization within AFNR education that changes lives and prepares students for premier leadership, personal growth, and career success.

There are currently three different course pathways offered in Agriculture.

Agriculture Power / Structure & Technology Program of Study

(Required Courses)

- Intro to Agriculture
- Principles of Ag Power, Structure, and Technical Systems
- Advanced Welding Technology
- Metal Fabrication
-

Animal Science Program of Study

(Required Courses)

- Intro to Agriculture
- Principles of Animal and Veterinary Science
- Animal Production
- Advanced Animal Production and Management
-

Plant Science Program of Study

(Required Courses)

- Intro to Agriculture
- Plant Science
- Crop Production and Management
- Landscape Construction and Management

COURSES

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.

FFA LEADERSHIP

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	

FFA & Leadership is a project based course where students are given some control over the direction of their learning. Thus, the individual standards covered in this course will vary from year to year and student to student within the course. The standards listed below reflect the typical standards covered within a year but are not reflective of all classroom learning.

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.

PRINCIPLES OF AG POWER, STRUCTURE, AND TECHNICAL SYSTEMS

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

Introductory course educating students to the basic skills and knowledge in construction and land management. This course covers topics including safety, project management, land site management, irrigation and drainage and agriculture structures and components. Upon completion of this course, proficient students will be prepared for more advanced coursework in agricultural mechanics.

METAL FABRICATION

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	Successful completion of Advanced Welding Technology

This course entails the application of basic metal welding skills to the construction of items through the fabrication process. Skills include project blueprint development, welding blueprint symbols interpretation, bill of materials, fabrication process determination, construction skills and quality control.

ADVANCED WELDING TECHNOLOGY

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	Successful completion of Principles of Ag Power, Structure, and Technical Systems

Advanced Welding Technology is an advanced course educating students in the advanced skills and knowledge in metal fabrication. Students will build on the skills and competencies presented in prerequisite courses. Students will learn cutting and welding applications of increasing complexity used in the manufacturing/metal fabrication industry. Students will be proficient in fundamental safety practices in welding, general industry-based metal fabrication skills, multiple welding processes, project management, quality control methods and further advanced welding/metal fabrication technology and processes.

PRINCIPLES OF ANIMAL AND VETERINARY SCIENCE

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

Students will develop knowledge, skills and understanding in the biological processes and physiological systems found in livestock and companion animal species including anatomy and physiology, growth and development, muscular and skeletal systems, integumentary system, respiratory and circulatory systems, nervous system, lymphatic and endocrine systems and excretory system. The scientific processes of observation, hypothesizing, data gathering, interpretation, analysis and application will be included. Career opportunities and educational preparation will be examined. Learning activities are varied with classroom, laboratory and field experiences will be included.

This class can count as a Science credit or elective.

ANIMAL PRODUCTION

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Principles of Animal and Veterinary Science

Students will gain knowledge, skill and understanding in a variety of systems of production as well as the care, management and handling of livestock and companion animal species. Nutrients and nutrition, types of feeds, balancing rations, herd health management, common diseases, parasites, disease treatment and prevention, reproductive management, routine administration techniques and basic animal handling will be the topics covered in this course. Current animal agricultural issues will be researched and addressed. The scientific processes of observation, hypothesizing, data gathering, interpretation, analysis and application will be included. Career opportunities and educational preparation will be examined. Learning activities are varied with classroom, laboratory and field experiences will be included. **This class can count as a Science credit or elective.**

ADVANCED ANIMAL PRODUCTION AND MANAGEMENT

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Animal Production

Students will focus on the care, maintenance and management of livestock and companion animal species. Advanced techniques in animal behavior and handling, routine administration and surgical procedures, governmental regulations and programs, animal identification protocols and procedures, HACCP analysis and monitoring, and facilities and equipment for large, small and exotic/alternative animal production will be developed. Current animal agricultural issues will be researched and addressed. The scientific processes of observation, hypothesizing, data gathering, interpretation, analysis and application will be included. Career opportunities and educational preparation will be examined. Learning activities are varied with classroom, laboratory and field experiences will be included. **This class can count as a Science credit or elective.**

PLANT SCIENCE

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

Plant Science provides students with knowledge and information about the growth, development, and reproduction of plants used for food, fiber, and beautification. Topics may include plant anatomy and physiology, plant growth processes such as photosynthesis, propagation (reproduction) methods, taxonomy and classification, and plant identification. The course will also highlight developing communication skills, leadership skills, and incorporate a survey of the careers within the plant science industry. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **This class can count as a Science credit or elective.**

CROP PRODUCTION AND MANAGEMENT

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Plant Science

Students in this class will cover topics in sustainable agriculture, planting, soil preparation, integrated pest management, harvest, handling and storing according to current industry standards, development of production plans, food/biosecurity, fertilizer management, and water management. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **This class can count as a Science credit or elective.**

LANDSCAPE AND CONSTRUCTION MANAGEMENT

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Successful completion of Crop Production and Management

Landscape Management course provides instruction that incorporates plant science, soil and media mixtures, plant identification and optimal environments, and landscape design, installation, and maintenance of new and existing landscapes. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

COMPUTER APPLICATIONS

PURPOSE

Technology classes will prepare students for continued study at the college level and/or a career that uses technology and open paths for future career pursuits and will have a solid base of Computer Science knowledge and experience including:

- Microsoft Office Suite (Word, Excel, Access and Power Point)
- Coding
- CAD

Students will have the ability to work individually and in teams on shared projects and will have the interest, knowledge and skills that enable them to participate in life-long learning and to adapt to an ever-changing technological environment. Students will have the ethical background to deal successfully with the social and technical ethical problems that will inevitably arise in their lives at work

COURSES

COMPUTER APPLICATIONS

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

In the first semester students will get hands on learning for Coding using both JavaScript and Python. Students will also learn how to create and develop web pages and use computer programs for Computer Aided Design (CAD) and computerized animation. Second semester will focus solely on the Microsoft Office Suite through the Pearson Learning Program. Students will obtain in depth knowledge to use Word, Excel, Access and Power Point.

CYBER SECURITY

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

Cyber security is an increasingly in-demand field of Computer Science. In this course, we will look at the major ideas in the fields of cybersecurity or information assurance. The course design addresses the fundamental implications of technology, the history of securing information and the relationship to the evolution of technology, and the need to securely transmit and store information. This is not a "hacking" class but we are looking at the ways computers, programs, networks, and people, are exploited by hackers, and what we can do to prevent or minimize the damage caused by bad actors. (Computer programming skills are not the focus of this class). Students will be able to earn three separate certifications that can help lead to internships and job placements in the future.

CE MASS MEDIA

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

An examination of media-related industries (broadcasting, journalism, advertising, public relations and online communications), and the issues related to those industries that affect contemporary public discourse.

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. In addition students will create the first ever Calhan Electronic Year Book.

AP COMPUTER APPLICATIONS

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	Successful completion of Computer Applications or instructor approval.

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

PURPOSE

Physical Education courses will instill confidence in each individual that fosters a healthy lifestyle and a desire/enjoyment to be active throughout life and to create a love for fitness through a variety of activities. Students will also gain an understanding of why “fitness” will benefit each individual now and in the future.

COURSES

PHYSICAL EDUCATION

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

This course is designed to give all students the opportunity to be physically active within a team, small group or individual environment, while learning about fitness and wellness principles. Increase strength and stamina as well as education on wellness, nutrition, and kinematics.

INTRODUCTION TO STRENGTH AND CONDITIONING

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

Foundational introduction to strength and conditioning. The intention of the class is to allow students to learn correct technique, spotting techniques, and improve performance. This class will allow all students to build a strong foundation for lifelong fitness.

ADVANCED STRENGTH AND CONDITIONING

DURATION:	Full Year
CREDIT:	1
GRADES:	9, 10, 11, 12
PREREQUISITE:	Successful completion of 2 years of Strength and Conditioning

This class is designed for students who have completed two years of weight training. This class will focus on the development of performance improvements with advanced techniques such as Olympic lifting, strength based programming, and plyometric training. In addition, students will have the knowledge to correctly periodize a program for optimal performance.

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.

FAMILY AND CONSUMER SCIENCES

COURSES

CHILD & ADOLESCENCE DEVELOPMENT

DURATION:	1 Semester
CREDIT:	.5
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

The purpose of this course is to acquire knowledge and understanding of child and adolescent development necessary for strengthening the well-being of children and families. Content focuses on perspectives of human development, research and theories, understanding and nurturing development, and challenges to development.

CAREER PATHWAYS

DURATION:	1 Semester
CREDIT:	.5
GRADES:	9
PREREQUISITE:	None

This course is designed to identify career interest areas based on your goals, individual skills, and aptitudes. Investigate interests, abilities and goal through various projects, and career testing procedures. Students will develop a usable education and career portfolio containing items necessary for post-secondary education and job search. Interact with professionals who work in various career areas through career panels, a job shadow and a mock interview

SENIOR SEMINAR / LIFE MANAGEMENT

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

Students will develop decision-making skills to become educated consumers with an understanding and academic knowledge of consumer resources and financial organizations. The course focuses on personal and family resources, job and career, personal and family finances, and wellness. (Relevant topics include: independent living, healthy lifestyles, career research and job portfolios, personal financial literacy, investments, credit, insurance, leasing vs. purchasing of autos and homes.)

EDUCATION EXPLORATION

DURATION:	1 Semester
CREDIT:	.5
GRADES:	9, 10, 11, 12
PREREQUISITE:	None

This class is designed to provide students with an overview of professions within education. Students will discover their own learning style and how learning styles impact teaching and the delivery of lessons. Experiences with various education professionals will enhance the understanding of classroom planning, licensure requirements, and career opportunities within school systems. This course includes a minimum of 15 extended learning hours, which may be outside of class time.

If you do not meet the 3.0 GPA for Teacher Cadet, take this class first to meet the Prerequisite

FCS LEADERSHIP

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

Are you an advanced family and consumer sciences student wanting to cultivate essential leadership skills and establish fundamental knowledge of Family Career and Community Leaders of America (FCCLA). Students will have the opportunity to develop and enhance a personal philosophy of leadership that includes: the understanding of self, others and community, and acceptance of responsibilities inherent in community membership. Learning opportunities may include direct experiences such as: FCCLA competition preparation, community service projects, dynamic leadership portfolios, and career exploration.

CULINARY ARTS

DURATION:	1 Semester
CREDIT:	.5
GRADES:	10, 11, 12
PREREQUISITE:	None

This 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. Certifications: StateFoodSafety- El Paso County Food Handler

PARA EDUCATOR PROGRAM

DURATION:	Full Year
CREDIT:	1
GRADES:	10, 11, 12
PREREQUISITE:	Child Development or Education Exploration

Learn about what it takes to be a Special Education Paraprofessional. Includes an internship working directly with students with special needs. This course uses the University of Colorado Denver's (UCD) CO-TOP Curriculum for Paraeducators. It covers eight academies: Instructional Teamwork, Orientation to Special Education, Student Supervision, Instructional Strategies, Behavior Management, Significant Communication Support, Significant Supports for Challenging Behavior, and CO-TOP Practicum. Each academy is equivalent to one college credit at UCD. (8 total credits)

- Industry certification and work experience
- First Aid/CPR/AED certification
- 30-hour practicum experience in the classroom.
- Paraprofessional certificate from UCD upon successful completion of course.

TEACHER CADET I

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Child Development or Education Exploration

This course is a year-long sequential honors elective course for high school juniors and seniors. It is designed to provide students with an in-depth look at the profession of teaching. Students study the growth and development of the learner, as well as the historical, social, political, philosophical, cultural, legal and economic forces shaping the United States public school system. In addition, students complete a 50-hour field experience in a school classroom. The Teacher Cadet curriculum has been aligned with the Colorado Teacher Performance Standards.

- Credits: 1 high school elective credit
Possible college credits: 6 College Credits from UCCS
LEAD 1000- American Foundations of Education
EDUC 2700- Schools, Society & Diversity

- Possible Certificates:
- Industry Certification: Work-based Experience
 - First-aid/CPR/AED Adult and Pediatric
 - 60-hour internship in the classroom

TEACHER CADET II

DURATION:	Full Year
CREDIT:	1
GRADES:	11, 12
PREREQUISITE:	Teacher Cadet I

This course is designed to provide additional field experience for those students who have completed the Teacher Cadet I course. For students who know they want to enter the education profession, this field experience will enhance their understanding of classroom instruction and the challenges facing education today. The field experience will include a minimum of 55 hours each semester of field contact time working with a mentor teacher plus 10 hours of seminar time at the home high school. Field experience placement will consist of two sites (a different site each semester) to provide a variety of experiences for the students. These experiences will be documented in a culminating portfolio.

- Credits: 1 high school elective credit
Possible College Credits: 6 College Credits from UCCS
EDUC 1000 Educational Psychology
CURR 3199 Technology in Education

ELECTIVES

COURSES

ACCESS

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

ACCESS will be assigned during 4th hour, Tuesday-Thursday, for 10th, 11th and 12th graders to be used as a quiet study hall, and Tuesday-Friday for 9th graders. Through ACCESS, student will be able to work independently on school work and/or "access" individual teachers to obtain additional support and homework help.

ARCHITECTURAL DESIGN

DURATION:	Full Year
CREDIT:	1
GRADES:	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 $\frac{3}{4}$ " = 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.

CREW

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

Beginning in 10th 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.

WOODWORKING

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

This course provides an overview of the planning, design, layout, and technical drawing interpretation for practical use in woodworking, cabinetmaking, and mill working. Different cabinet and furniture styles used, various wood products and materials, and proper tool selection may also be covered. Students will be introduced to the different construction processes in the cabinetmaking, furniture making, and millwork industries. Students will learn about measurement, layout, shop drawings and cutting lists. They will gain a basic understanding of the various kinds of materials used in the industry. Students will learn to use selected woodworking tools and machinery. Correct and safe use of tools and equipment is emphasized. The construction of several projects will develop student's woodworking skills.

