CONIFER HIGH SCHOOL



COURSE GUIDE

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REGISTRATION INFORMATION

Welcome to Conifer High School! This guide has been prepared for you and your parents to use in planning your high school program. We encourage all students to reach well beyond the minimum graduation requirements and to make the most of the educational opportunities which Conifer High School provides. We urge you to read the registration guide carefully so that you can make good choices with regard to courses you are required to complete during high school. Any questions you may have regarding your high school program or course of study should be directed to your counselor. If there is not sufficient student interest in a particular course, it will not be offered during the upcoming school year. The master schedule is created based on student selection of courses.

Registration Information

When you register for classes, the course selections you make are for the entire year. Many of the classes (both required and elective) are already full year courses. Be sure to read the course description book carefully so that you are fully aware of the duration of each course and prerequisite that might be required. Some courses are only offered one semester and not the other semester.

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FEES RELATED TO COURSES IN THIS COURSE GUIDE CAN BE LOCATED ON OUR WEBSITE AT: https://conifer.jeffcopublicschools.org - The information is located on the high school Financial Website by going to Parents>Financial Office and selecting Conifer HS Fee Appendix for 2023-24.

COUNSELING INFORMATION

The Counseling Department at Conifer High School follows the ASCA National Model, a comprehensive approach to the design, implementation, and evaluation of a school counseling program that improves student success. Counselors make data-driven decisions to implement new programs and to evaluate existing programs to ensure that all students receive equal access and benefits to the academic, career, and personal/social counseling services that we provide.

Honors Courses: Conifer High School offers honors classes for many of the core courses. These honors sections will carry an honors designation on the transcript and the course will carry a weighted GPA such as that of an Advanced Placement course. A final grade of a "D" is not weighted.

Advanced Placement: Advanced Placement (AP) is a curriculum developed by College Board (the makers of the SAT) that allows students to take courses at Conifer High School that can earn them college credit and/or qualify them for more advanced classes when they begin college. (Note: Click on 'AP' symbol for additional information)

What are AP courses? They are designed to give students the experience of an intro-level college class while they are still in high school. Plus, students may earn college credit for the class if they pass the AP exam. (Variable depending on university)

And what are AP exams? It is a cumulative exam that tests all that students have learned in an AP class. Students may earn college credit if they pass the AP exam given at the end of the year in May. APs test are scored between 1 and 5, with anything above 3 considered passing.

What is the difference between Honors and Advanced Placement?
Both honors and AP classes provide Conifer High School students with the opportunity to challenge themselves in a more rigorous curriculum than our regular course offerings. Both honors and AP courses are assigned weighted grades that reward students for their efforts by assigning an increase of one letter grade higher weight than the score on their report card. They differ in the fact that AP curriculum is dictated by the College Board (see "what is AP") while honors curriculum is enhanced and designed by each individual teacher or department. Honors curriculum is designed to not just increase the content covered, but to challenge students in the areas of critical thinking and higher level processing skills. We strongly encourage our students to attempt honors and AP classes if they demonstrate an aptitude and/or passion for the subject matter. If students choose to challenge themselves in these rigorous courses and find they are struggling with the course load, we have designed our master schedule to allow them to move back to our regular courses without penalty. Please refer to our drop/add policies section to learn more about when during the year students may adjust their schedules.

AP Course Grading Philosophy
Conifer High School AP staff members have developed methods of assessment that will allow students to be provided with clear indicators and predictors of their performance on AP exams. These indicators have been embedded throughout the curriculum to provide students the feedback necessary to address weaknesses prior to entering the exam. Indicators of performance provided to students include, but are not limited to, summative exams, unit tests, quizzes, presentations, verbal exams, performance based assessments, written responses, and a multitude of materials published by the College Board. Our dedicated, hard-working teachers provide these feedback opportunities consistently to allow students the chance to address areas of growth before entering an exam. There is no true indicator of how students will perform on the culminating AP exams in May. Please encourage your student to take every opportunity provided to prepare for these rigorous, college level assessments.

Advance Placement "Equity and Access" Philosophy
Conifer High School makes equitable access a guiding principle for all Advanced Placement (AP) programs by giving all willing and academically prepared students the opportunity to participate in AP. Through a commitment to equitable preparation, Conifer High School also believes that all students should have access to academically challenging coursework before they enroll in AP classes, which can prepare them for AP success. Research shows that students who complete this rigorous coursework will experience greater academic success in college.

College Board Equity and Access Policy-

The College Board strongly encourages educators to make equitable access a guiding principle for their AP programs by giving all willing and academically prepared students the opportunity to participate in AP. We encourage educators to:

- Eliminate barriers that restrict access to AP for students from ethnic, racial, and socioeconomic groups that have been traditionally underserved.
- Make every effort to ensure their AP classes reflect the diversity of their student population.

- Provide all students with access to academically challenging coursework **before** they enroll in AP classes

Only through a commitment to equitable preparation and access can true equity and excellence be achieved.

Block Scheduling: Class periods are approximately 90 minutes in length and there are a total of seven class periods and a Seminar period. The school year consists of 36 weeks and is divided into two semesters. Student progress reports are available on Parent Portal at the end of the 6th and 12th weeks of the semester. Final semester grades appear on transcripts.

Credit: A student will receive credit for a course if that student has successfully passed the course with a letter grade of a "D" or higher. Typically, the amount of credit awarded for successfully completing a one semester class is 0.5 credits. A student must be enrolled in 2.5 credits of course work, which must include 4 core/core elective classes (typically 5 classes) each semester to be considered a full-time student.

Grade Level Requirements: The following are the minimum number of credits that a student must have earned to be classified for specific grade level:
Sophomore = 6 credits
Junior = 12 credits
Senior = 18 credits

Graduation = 23 credits + Demonstrated Career & College Readiness in Math & English

Cumulative Grade Point Average (GPA): The average obtained by dividing the total number of grade points earned in high school courses by the total number of credits attempted. The following courses will be weighted when figuring GPA: AP courses offered within Jeffco Schools and Post-Secondary Option courses (with principal's discretion and prior approval). A final grade of a "D" is not weighted.

GRADE POINTS	WEIGHTED GRADE POINTS
A = 4 grade points	A = 5 grade points
B = 3 grade points	B = 4 grade points
C = 2 grade points	C = 3 grade points
D = 1 grade point	D = 1 grade point
F = 0 grade point	F = 0 grade point

Rank in Class: A student's rank in his or her class is determined by comparing the cumulative grade point averages of all students in that class.

Valedictorian: The procedure for determining the valedictorian of the class will be:
• Students earning the most "A's" in AP classes *including post-secondary offerings that exceed Conifer High School's AP offerings.

In the event of a tie, the following will break the tie:
A. Total AP credits including post-secondary offerings that exceed Conifer High School's AP offerings.
B. If the (a) tie breaker does not break the tie, there will be multiple valedictorians.
C. Beginning with the class of 2026 and students transferring as of Jan. 1, 2022 into Conifer High School must be enrolled in Conifer High School for two years (4 consecutive semesters) to be eligible for Valedictorian or Salutatorian status.

- **Salutatorian**: The second student in the same process.

The below criteria for Valedictorian and Salutatorian applies to the Class of 2028 and beyond
Valedictorian: The procedure for determining the valedictorian of the class will be:

- Students earning the most "A's" in AP classes that are offered at Conifer High School (external coursework will not be counted towards val/sal)
- To be eligible for valedictorian, students must have earned at least 11.5 credits at Conifer High School (in-person classes)

In the event of a tie, the following will break the tie:

1. "B's" in AP classes taken at Conifer High School
2. If there is still a tie, then that year there would be multiple valedictorians and no salutatorian.

Salutatorian: The second student in the same process

- **Distinguished Scholars**: Students must have taken at least one AP course and have a cumulative GPA >4.0. Weighted grades will be used when recognizing distinguished scholars.

Transcripts: The following courses are the only courses that will appear on a CHS transcript.
- Courses taken at CHS
- Any Jefferson County Summer School, Night School, Warren Tech, or approved correspondence program.
- Post-Secondary Enrollment Option courses.

The following options must be pre-approved with a CHS counselor to appear on a CHS transcript.
- CHS Early Graduation contracted courses
- Fifth-year students' credit recovery courses
- Transfer credits from another Jeffco approved, accredited US high school, at our principal's discretion

Teacher's Assistant
If a student wishes to be a Teacher's Assistant, they must first get that teacher's permission. A student may only be a TA if it is their 6th or 7th class (excluding Seminar). Please note that Office, Counseling, Technology Network & Library assistants receive 0.5 credits per semester, along with some approved Teacher assistants. However, a majority of the Teacher Assistants receive 0.25 credits per semester.

Schedule Changes
No Schedule Changes / Only Schedule Corrections will be made

Each year a new master schedule is created to accommodate students' course requests made during registration in January and February. Faculty members are employed, textbooks are purchased, and rooms are assigned on the basis of these requests. Therefore, it is very important to choose your classes with care. If it is decided between the student, their parents, counselor and Assistant Principal that a course drop should be made: this must be done prior to the 6th week of class. Course drops made between weeks 3 -5 of each semester are noted on transcripts with a WP (withdraw pass) or WF (withdraw fail) and do not affect your grade point average. Courses dropped after the 5th week of class each semester will result in an "F" on your transcript and will affect your grade point average.
IF there is a need to change levels (ie Honors Pre-Calculus to Regular Pre-Calculus) this change is initiated by the teacher and appointment must be made with your counselor to discuss this change.
If you are a senior and have completed your college applications you MUST call the admissions office to verify that by DROPPING a class it will not change your acceptance status, especially an Advanced Placement Course. Your final transcripts will be forwarded to your college upon graduation to reflect any changes.
According to the School Board Policies, students must have four core classes each semester!!

Adding a Course: Students may add a course in place of a free hour or study hall during the first two weeks of a semester.

All requests for schedule changes will be governed by the following guidelines:
If an error has been made in the scheduling of courses, the student must complete a schedule correction form and submit to their counselor to rectify the error.

The following circumstances are considered errors:

- I don't have the required prerequisite to be in the class
- My schedule is not complete
- A course is omitted which the student had selected or that is required
- A conflict exists between two courses offered in the same period
- A course is scheduled which the student had not selected
- Too many courses are scheduled in one semester

The following are not considered errors or acceptable changes:

- Students or parents requesting a teacher change
- Different lunch/free period/class (friend, time of the day, etc.)
- Students who want certain periods off to accommodate a job or certain activity
- Student has changed their mind about a class after the timeline is passed.

Correspondence School
A maximum of two credits may be earned through an approved outside educational institution. Note that all grades printed on an official transcript must be handed into the counseling office by May 1 of the graduating year to ensure these grades are entered on the Conifer High School transcript to count toward graduation.

Early Graduation

Students wishing to graduate early should meet with their counselor to determine eligibility. Once it is determined that the student can meet graduation requirements earlier than the scheduled semester of graduation, the student, with parent approval, must:
•complete an Early Graduation Request Form and submit it to their counselor
•schedule a meeting with their counselor, principal and parents
If a student wishes to graduate in December of their senior year, they must get principal approval in the Spring of their junior year.

ICAP (Individual Career and Academic Plan)
All students are required to have an Individual Career and Academic Plan (ICAP) during their middle school and high school careers. The tasks vary for each grade level and are intended to help students successfully work toward a career path and/or college major. The younger grade levels heavily focus on career exploration, while the higher grade levels focus on postgraduate options (e.g. college majors, technical schools, scholarships, etc). Jeffco uses **Naviance** as the vehicle to complete student ICAPs.

GRADUATION REQUIREMENTS

JEFFERSON COUNTY GRADUATION REQUIREMENTS		HIGHER EDUCATION ADMISSION REQUIREMENTS	
English	**4 credits**	**English**	**4 credits**
Math	**3 credits**	**Math**	**4 credits**

Science **3 credits**	**Science** **3 credits**
Social Studies **3.5 credits**	**Social Studies** **3 credits**
P.E./Health **0.5 credits**	**World Language**** **1 credit** ***World language requirements differ between institutions*
Fine/Practical Arts **(Business, Art, Music, Journalism, STEM)** **0.5 credits**	**Elective** **2 credits**
Electives **8.5 credits**	
TOTAL 23 CREDITS	
All students must take four core classes each semester or three Advanced Placement courses. Core content includes academic electives.	Core Content Includes: English, Mathematics, Science, Social Studies, World Languages, Advance Placement classes in the Arts and electives, Post-Secondary options, One half day Warren Tech Programs (two of four core classes).

Jefferson County Schools mission is to ensure all students reach their learning potential and are prepared for career and/or college. The Board of Education has established the following graduation requirements.

The following criteria shall entitle a student to a high school diploma from Jefferson County Public Schools;

1) Successful completion of 23 credits in the categories listed below. A unit of credit is defined as the amount of credit earned toward graduation following demonstration of district identified criteria.
   a. Achievement in Colorado Academic Standards as demonstrated by mastery of appropriate coursework.
   b. Minimum requirements for a high school diploma
      1. **English** – 4 credits
         a. Core classes that address all English Language Arts standards are required.
         b. Additional English classes may be required by the school if a student is non proficient in reading and/or writing.
      2. **Math** – 3 credits
         a. A minimum of three credits are required in senior high school. Courses must include Algebra I, Geometry and one additional course at or above the level of Geometry.
         b. Algebra I and Geometry credits may be earned in middle school. Those credits are not included in the 23 credits required for graduation from senior high school.
         c. A Computer Science course with a pre-requisite of at least algebra I is permissible as fulfilling a mathematics requirement.
      3. **Science** – 3 credits
         a. Three credits of laboratory classes in Science that meet both process and content standards are required.
         b. Required classes may include courses in three of the four areas of science, including Earth Science, Biology, Chemistry, and Physics.
      4. **Social Studies/Social Science**s – 3.5 credits
         a. Three and a half credits that must include Civics, Geography, American History, World History, and Economics for seniors are required.

5. **Physical Education** – 0.5 credit
   a. One half credit in Physical Education and/or Health and Wellness in a course aligned with Physical Education standards is required.
6. **Fine/Practical Arts** – 0.5 credit
   a. One half credit in either the fine arts defined as Music, Visual Arts, or Drama or one half credit in a career and technical education course is required – including Business, Journalism, Student Media, Engineering.
7. **Electives** – 8.5 credits
   a. Electives include the Fine Arts, Technology, Career and Technical Education, Journalism, Student Media, Business, Physical Education, and core content electives in English Language Arts, Mathematics, Science, Social Studies, and World Languages.

2) Demonstration of Career and college readiness in English and Math through one or more of the approved options in the menu below is required for graduation;

Measure	English	Math
Accuplacer assessment	62	61
American College Testing (ACT)	18	19
ACT WorkKeys	Bronze or higher	Bronze or higher
Advanced Placement (AP)	2	2
Armed Services Vocational Aptitude Battery (ASVAB)	31	31
International Baccalaureate (IB)	4	4
Scholastic Aptitude Test (SAT)	470	500
Concurrent enrollment	Passing Grade	Passing Grade
Industry certificate	Individualized	Individualized
District capstone	Individualized	Individualized
Collaboratively-developed, standards-based performance assessment (in development)	Statewide scoring rubric	Statewide scoring rubric

Endorsements in STEM & World Language: See specific department sections of this guide.

Concurrent Enrollment: Concurrent enrollment provides high school students the opportunity to take college-credit bearing courses taught by college-approved high school teachers. Students gain exposure to the academic challenges of college while in their supportive high school environment, earning transcripted college credit at the time they successfully pass the course. Sometimes called “dual credit,” “dual enrollment,” or “college in the high school,” concurrent enrollment partnerships differ from other models of dual enrollment because high school instructors teach the college courses. Concurrent enrollment offered at Conifer High School can be found at:
www.rrcc.edu/high-school-relations/courses-available-at-your-school
Dual Enrollment: Available through CU Succeeds for specific courses.

Important Facts about Concurrent Enrollment: ***Transcripts*** Participation in Concurrent Enrollment begins your college experience and permanent college transcript. In contrast to the Advanced Placement (AP) Program, where college credit is granted upon successful completion of a national examination and no record is kept on the student's college transcript if the exam is not passed, registration for concurrent enrollment constitutes a commitment to enter the final course grades on your permanent college record,

regardless of the results. Furthermore, credit is earned by performance and participation throughout the course, rather than by an exit examination alone.

Grades: ***All Concurrent Enrollment grades are posted to an official college transcript and a college GPA is established. This transcript becomes part of your permanent college record.*** Final grades will also appear on your high school transcript and must be identical to the grades posted on the college transcript.

Drops and Withdrawals: All schedule adjustments, such as drops and withdrawals, must be submitted in writing to the COLLEGE High School Relations Office (not your High School Counseling Office). Drop and withdraw deadlines for Concurrent Enrollment courses are set by the college. You must abide by the deadlines-no exceptions.
Drop definition: If the dropped request is made before the drop deadline, no record of the course will appear on your college transcript and no tuition is charged.
Withdraw definition: After the drop deadline, a withdrawal can be made before the withdraw deadline. A "W" grade will appear on your college transcript. Your college GPA will not be affected. WP – Withdraw Pass or WF – Withdraw Fail will be recorded based on grade on class when withdrawal is processed.

College Opportunity Fund: The College Opportunity Trust Fund, created by the Colorado Legislature, provides a stipend to eligible undergraduate students who are Colorado residents for tuition purposes. The stipend pays a portion of your total instate tuition when you attend a Colorado public institution or a participating private institution. Eligible undergraduate students must apply, be admitted, and enroll at a participating institution. Both new and continuing students are eligible for the stipend. The stipend will assist with the first 145 credit hours of your undergraduate degree program at a Colorado college. Qualifying students may use the stipend for eligible undergraduate classes. The stipend is paid on a per credit hour basis to the institution at which the student is enrolled. The credit-hour amount will be set annually by the General Assembly. The application to apply for the stipend is currently available at www.collegeincolorado.org; click on “College Opportunity Fund.” All Colorado residents should apply for the College Opportunity Fund in order to offset the entire cost of tuition at each college.

ART



The Art curriculum at Conifer High School includes a variety of courses that will build lifelong skills and offer students a means for creative expression. The Art courses offered begin to prepare students for one of the largest growing job markets today. Employers value the traits learned in the arts, such as critical thinking, problem solving, creativity, self-confidence, and patience. Studies find students in the Arts are more empathetic, have more cultural awareness, are more open-minded and have enhanced performance in other curricular areas.

All Art classes at CHS meet the requirements for academic electives as stated by the Colorado Commission of Higher Education and count for a Fine Art Credit.

Some Visual Art classes at CHS are Career and Technical Education (CTE) courses which provide opportunities for Work-Based Learning, leadership development through National Art Honor Society (Career and Technical Student Leadership Organization), and relevant industry and job training. Anyone can join NAHS, however.

VISUAL ARTS STANDARDS
1. Observe and Learn to Comprehend
2. Envision and Critique to Reflect
3. Invent and Discover to Create
4. Relate and Connect to Transfer

CERAMICS BEGINNING
05159G05012
CREDIT: 0.5 GRADES: 9,10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: NONE

Ceramics Beginning is an introduction course that includes instruction in hand-building techniques while exploring the versatility of clay. This class focuses on hand building skills such as pinch, coil and slab methods. Students also will learn about surface decoration and firing possibilities as well as gain an understanding of basic vocabulary of working with clay. Some schools may also introduce the potter's wheel at the beginning level. Additionally, the course incorporates the study of ceramics from a historical, social, and cultural viewpoint as a source of knowledge and inspiration.

CERAMICS ADVANCED
05159E05011
CREDIT: 0.5 GRADES: 9,10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: CERAMICS BEGINNING

Ceramics Advanced is designed to deepen the ceramics knowledge of the student. Students may begin to specialize in a media / process while strengthening skills and developing a body of work that demonstrates a high level of expressiveness. Students will analyze their own work, participate in critiques, and continue to study master artworks as a source of learning and inspiration. This class can be taken more than once.

PAINTING BEGINNING
05157G05012
CREDIT: 0.5 GRADES: 9,10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: NONE

Painting Beginning focuses on foundational painting skills where students typically work with several media (such as watercolor, tempera, oils, acrylics, and so on), but may focus on only one medium. Course incorporates the study of painting from a historical, social, and cultural viewpoint as a source of knowledge and inspiration.

PAINTING ADVANCED
05157E05011
CREDIT: 0.5 GRADES: 9,10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: CREATIVE ART- PAINTING

Painting Advanced is designed to deepen the painting knowledge of the student. Coursework incorporates self-initiated study of skills and adequate time to develop a body of work. Students may specialize in a specific media or process while focusing on a high level of expressiveness. Students will analyze their own work, participate in critiques, and continue to study master artworks as a source of learning and inspiration. This course can be taken more than once.

DRAWING BEGINNING
05156G05012
CREDIT: 0.5 GRADES: 9,10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: NONE

Drawing Beginning focuses on foundational drawing skills where students typically work with several media (such as pen-and-ink, pencil, chalk, and so on), but may also focus on only one medium. Course incorporates the study of drawing from a historical, social, and cultural viewpoint as a source of knowledge and inspiration.

DRAWING ADVANCED
05156E05011
CREDIT: 0.5 GRADES: 10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: CREATIVE ART-DRAWING

Drawing Advanced is designed to deepen the drawing knowledge of the student. Coursework incorporates self-initiated study of skills and adequate time to develop a body of work. Students may specialize in a specific media or process while focusing on a high level of expressiveness. Students will analyze their own work, participate in critiques, and continue to study master artworks as a source of learning and inspiration.

JEWELRY BEGINNING (METALSMITHING FOR JEWELRY)
05166G05012
CREDIT: 0.5 GRADES: 9,10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: NONE

Jewelry Beginning is an introduction course that includes instruction in basic jewelry design. Typically, students explore using various media, such as nickel, copper, ceramic, papier-mâché, glass, plastic, copper-enameled, brass, and silver. Some Jewelry courses may concentrate on metalwork processes such as brazing, soldering, casting, welding, riveting, and finishing as they relate to the creation of jewelry. Additionally, the course incorporates the study of jewelry design from a historical, social, and cultural viewpoint as a source of knowledge and inspiration. This course also covers the proper use and care of hand tools, safety, jewelry making fundamentals, soldering, and related metal theory as well as the hazards of welding on health and safety, locating essential safety and product information, and applying shop safety procedures.

JEWELRY INTERMEDIATE (METALSMITHING FOR JEWELRY: INTERMEDIATE STUDIO)
05166G05022
CREDIT: 0.5 GRADES: 9,10,11,12

1 st OR 2 nd SEMESTER
PREREQUISITE: NONE

Jewelry Intermediate is designed to expand student skills and knowledge in jewelry. Students will explore new techniques while focusing on the compositional elements of jewelry design and begin to develop a personal style. Students will also analyze their own work as well as study the merits and meanings of contemporary and historical works of art. Students will also analyze their own work as well as study the merits and meanings of contemporary and historical works of jewelry design.

JEWELRY ADVANCED (METALSMITHING FOR JEWELRY: STUDIO)
05166E05011
CREDIT: 0.5 GRADES: 10,11,12
1 st OR 2 nd SEMESTER
PREREQUISITE: Jewelry Intermediate (Metalsmithing for Jewelry: Intermediate Studio)

Jewelry Advanced is designed to deepen the jewelry design knowledge of the student. Students may begin to specialize in a media / process while strengthening skills and developing a body of work that demonstrates a high level of expressiveness. Students will analyze their own work, participate in critiques, and continue to study master artworks as a source of learning and inspiration. Students have the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly. This course can be taken multiple times and will continue to grow with the students' understanding of mediums and techniques.

DIGITAL PHOTOGRAPHY BEGINNING
11054G05012
Credit: 0.5
1 st OR 2 nd SEMESTER
Prerequisite: None
Grade: 9,10,11,12

Digital Photography Beginning will introduce students to the use of digital cameras and digital image-editing software, primarily using Adobe Photoshop and Lightroom. The roles of scanning processes and equipment, image picture-taking modes and printing preparation, and various out-put devices will be explored in producing the photographic image. Exposure techniques such as pre-visualizing and the application of visual elements and lighting techniques will be stressed. Additionally, this course incorporates the study of photography from a historical, social, and cultural viewpoint as a source of knowledge and inspiration, as well as an exploration of possible photography careers. Students are free to use their own DSLR for this class, otherwise a camera is provided.

DIGITAL PHOTOGRAPHY INTERMEDIATE
11054G05022
Credit: 0.5
1 st OR 2 nd SEMESTER
Prerequisite: Digital Photography Beginning
Grade: 9,10,11,12

Digital Photography Intermediate is designed for students to continue to learn advanced digital camera and image editing techniques, including the use of the Camera Raw file format. Computer software, scanning equipment, out-put devices, and studio lighting will be employed. Course work incorporates specific, specialized, and self-initiated study of media, skills, and processes. Additionally, studio work incorporates adequate time to experiment with the course work, develop personal expressions, and reflect on artwork and their processes. Students will also analyze their own work as well as study the merits and meanings of contemporary and historical works of art, as well as continue study of possible photography careers. Students are encouraged to use a personal DSLR for this class.

DIGITAL PHOTOGRAPHY ADVANCED
11054E05011
Credit: 0.5
1 st OR 2 nd SEMESTER
Prerequisite: Digital Photography Intermediate
Grade: 9,10,11,12

Digital Photography Advanced is designed to deepen the digital photography knowledge of the student with regard to technical expertise, creativity, and professional equipment. Technical aspects include film to digital transfer, lighting, digital image manipulation, alternative processes, large format camera work and stock photography. Creative exploration of subject matter, lighting, color theory and other psychological characteristics in the development of images are developed. A variety of photographic equipment is utilized for the studio and on location. Course work incorporates specific, specialized, and self-initiated study of animation media, skills, and processes; while studio work incorporates adequate time to experiment with the course work, develop a body of work with a common theme, reflect on artwork and their processes, receive expert feedback through critique, and transfer skills to other opportunities. Students will also analyze their own work as well as study the merits and meanings of contemporary and historical works of art, as well as continue study of possible photography careers. Students are encouraged to use a personal DSLR for this class.

AP 2-D ART AND DESIGN
05174H05012 & 05174H05022

Credit: 0 .5 credit per semester (1 credit for year)
Yearlong Course
Prerequisite: Commercial Photography I or Teacher Approval
Grade: 11,12
Fee associated with this course

Designed for students with a serious interest in art, the AP 2-D Art and Design course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Students are asked to demonstrate proficiency in 2D design using a variety of art forms. These could include, but are not limited to, graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting or printmaking. This type of design involves purposeful decision making about how to use the elements and principles of art in an integrative way with the entire spectrum of ideas.

AP 3D ART & DESIGN

05175H05012 & 05175H05022

Credit: 0 .5 credit per semester (1 credit for year)
Yearlong Course
Prerequisite: Ceramics Advanced Studio, Metalsmithing for Jewelry: Intermediate Studio or Teacher Approval
Grade: 11,12
Fee associated with this course

Designed for students with a serious interest in art, the AP Studio Art—3D Design course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the course typically emphasizes quality of work, and attention to issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts may be articulated through additive, subtractive, and/or fabrication processes. These might include traditional sculpture, architectural models, apparel, ceramics, three-dimensional fiber arts, or metal work, and jewelry, among others.

AP DRAWING

05172H05012
05172H05022

Credit: 0.5 (1 credit for full year)
Yearlong Course
Prerequisite: Drawing, Advanced Drawing, or Painting, Painting Advanced and Teacher Approval
Grade 11, 12
Fee associated with this course

Designed for students with a serious interest in art, the AP Drawing course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the course typically emphasizes quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of drawing. In this course, students explore representation, abstraction, and experimentation with a variety of drawing materials. https://apcentral.collegeboard.org/courses

STUDENT MEDIA

LEVEL I COURSES

CTE

PHOTOJOURNALISM (Yearbook I) **11002G05012 & 11002G05022**
Credit: 0.5
Full-Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Students demonstrate their understanding of a variety of programs and occupations in print media using digital tools that are widely available in professional publication work. Focus is on producing content for reader-oriented publications. Instruction will be paired with hands-on lab experiences in community reporting, both verbal and visual. Students on Yearbook staff can earn college credit from Red Rocks Community College after one full year on staff. Photojournalism exposes students to the manner in which photography is used to convey information and experiences. Typically coordinated with production of the school yearbook, photojournalism provides students with the opportunity to improve their photo composition and digital technology skills, and to apply their art to journalistic endeavors.

AUDIO/VIDEO PRODUCTION Beg **11051G05014 & 11051G05024**
Credit: 1.0
Full-Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

This course explores the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student lead productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on TV studio broadcasting and news production projects. Students will also be encouraged to participate as studio crew for district productions outside of school hours.

LEVEL II COURSES

MEDIA FOR PERFORMANCES (Yearbook II) **05259G05012 & 05259G05022**
Credit: 1.0
Full-Year Course
Prerequisite: Photojournalism (Yearbook I)

Grade: 10,11,12
Fee associated with this course

Students demonstrate their understanding of a variety of programs and occupations in print media using digital tools that are widely available in professional publication work. Focus is on producing content for reader-oriented publications. Instruction will be paired with hands-on lab experiences in community reporting, both verbal and visual. Students on Yearbook staff can earn college credit from Red Rocks Community College after one full year on staff. Media for Performance explores the creative and conceptual aspects of designing and producing media for informational and entertainment arts productions.Instruction will be paired with hands-on lab experiences in community reporting.

AUDIO/VIDEO PRODUCTION Intermediate 11051G05034 & 11051G05044
Credit:1.0
Full-Year Course Prerequisite: Audio/Video Beginning
Grade: 10,11,12
Fee associated with this course

Building on skills learned in Audio/Video Production Beginning, students will work on several audio and/or video productions created for television, cable television, education, radio, entertainment, business and/or industry. Students may concentrate on specific areas of interest such as videography, video editing, film editing, audio recording, audio mixing, sound reinforcement, sound design, dialog editing, lighting, directing, producing, still or animated computer graphics, special effects, voice talent, on-camera talent, production management and camera operation. Students will create a portfolio of work. Additional time beyond regular school hours is required for productions. This course explores the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student lead productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on TV studio broadcasting and news production projects.

LEVEL III COURSES

JOURNALISM ADVANCED (Yearbook III) **11101E05012 & 11101E05022**
Credit: 0.5
Full-Year Course
Prerequisite: None
Grade: 11,12
Fee associated with this course

Journalism Advanced is typically associated with student leaders of the yearbook. This course will emphasize writing style and technique as well as production values and organization. In Journalism Advanced students demonstrate their knowledge and skill by leading and mentoring peers in creating items that are newsworthy; upholding high standards and press responsibility; further developing skills in writing and editing stories, headlines, and captions; and support the principles of production design, layout, and printing. Journalism Advanced students focus on editing and newsroom management. These students may create a portfolio which they can use towards a CTE Capstone. Instruction will be paired with hands-on lab experiences in community reporting.

AUDIO/VIDEO PRODUCTION Advanced 11051E05012 & 11051E05022
Credit: 1.0
Full-Year Course
Prerequisite: Audio/Video Production Beg and Intermediate
Grade: 11,12
Fee associated with this course

During the Advanced course in Audio/Video Production, students will lead several audio and/or video productions created for television, cable television, education, radio, entertainment, business and/or industry. Students may concentrate on specific areas of interest such as videography, video editing, film editing, audio recording, audio mixing, sound reinforcement, sound design, dialog editing, lighting, directing, producing, still or animated computer graphics, special effects, voice talent, on-camera talent, production management and camera operation. Students will create a portfolio of work and may be asked to support and mentor their peers. Additional time beyond regular school hours may be required for productions. Building on skills learned in Audio/Video Production Beginning and Intermediate, students will continue to work on the LoboTrax Production Team. College Credit at Red Rocks Community College is available for students who remain on staff for one full year.

BUSINESS/MARKETING



The Business and Marketing curriculum, student organization (DECA), and internship/ work opportunities provide students the opportunity to:

- Be prepared for higher paying jobs – NOW & later– with training for high demand/wage positions.
- Be more efficient in their high school & post-secondary experiences. Students will learn skills & tools to work faster & create higher quality products. They also experience the core academics in relevant, differentiated & application-based ways that help anchor and transfer knowledge.
- Be prepared for independence. Students learn to manage themselves, their finances, their personal, professional and academic lives, to interact with others successfully and purposefully, to set goals, fulfill responsibilities and to see the big picture in terms of opportunities and challenges ahead.

All Business and Marketing classes at CHS are Career & Technical Education courses and meet the requirements for academic electives as stated by the Colorado Commission of Higher Education. Classes count for "Art" elective credit to fulfill Jefferson County Graduation Requirements at Conifer HS. **All classes provide opportunities for Work-Based Learning, leadership development through the DECA club (Career and Technical Student Leadership Organization), and relevant industry and job training.**

PERSONAL FINANCE 19262G05011
Credit: 0.5 **(RRCC College Credit Class – Personal Finance BUS 115)**
Semester Course
Prerequisite: Enroll for College Credit (3 credits)
Grade: 10,11,12

Personal Finance surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes. This class equips students with the fundamentals of basic financial planning and money management essential in today's fast moving economy. Students in this course are eligible to participate in DECA.

This class is being offered for free Concurrent Enrollment College Credit through Red Rocks Community College. In order to qualify for Concurrent Enrollment credit, students are expected to complete a post-secondary registration form at their high school. It is the responsibility of the student to check with the college which they are interested in attending, after high school graduation, to verify credit will transfer. These grades will be transcripted on both the Jeffco and Red Rocks Community College transcripts. If a student wishes to transfer Concurrent Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript. When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class. *http://www.cde.state.co.us/postsecondary/concurrentenrollment

INTERNATIONAL MARKETING 12056G05011
Credit: 0.5
Semester Course
Prerequisite: None

Grade: 9, 10,11,12

International Marketing enables the student to explore the international marketing for U.S. products, and to explore the increasing competitive international environment and recent changes in the environment that have challenged U.S. business. The course is designed to make the reader an "informed observer" of the global market place as well as enabling him/her to develop skills to make marketing decisions in a global context. **Students in this course are eligible to participate in DECA.** This class is offered on a 3 year cycle. ***This course is offered in 2026-27. Best course in 2025-26 to prepare for and compete in DECA***

ENTREPRENEURSHIP 12053G05021

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9,10,11,12

Entrepreneurship teaches entrepreneurs planning skills from the development of a conceptual business to an actual comprehensive business plan. Students in the course will earn their **ESB Industry Certification (Entrepreneurship and Small Business)**. In this practical class, students will explore their own entrepreneurial styles, interests and business opportunities. Additional topics include marketing strategies and tactics, liability protection, growth management, financial management and projections, networking, and funding options. Entrepreneurship acquaints students with the knowledge and skills necessary to own and operate their own businesses. Do you want to be your own boss? Are you ready to develop your best ideas into money-making ventures? You will discover your entrepreneurial style, develop a business plan, learn how to bring your product or service ideas to market, and experience the excitement of developing a company. **Students in this course are eligible to participate in DECA**

ETHICAL LEADERSHIP 12060G05011

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9,10,11,12

Ethical Leadership is a principles-based ethics course introducing students to key leadership and ethical knowledge and skills, including integrity, trust, accountability, transparency, fairness, respect, rule of law, and viability. Throughout the course, students apply ethical principles to contemporary, real-world situations that teens and young adults often encounter in school, at home, with friends, and in entry-level job positions. They examine the concept of ethical leadership and strengthen their leadership and ethical decision-making skills through the planning, implementation, and evaluation of a class service-learning project. **Students in this course are eligible to participate in DECA**.

PROJECT MNGT IN ORGANIZATIONS 12099G05012

Credit: 0.5
1ST Semester Course
Prerequisite: None
Grade: 9, 10,11,12

Project Management in Organizations investigates the concepts and applicability of project management within organizations. Students in this class will pick a project they are passionate about to develop and implement the project plan. Students will also earn their **PMR Industry Certification (PMI Institute Project Management Ready).** The course examines the unique nature of the project management structure including its emphasis on integrated decision making throughout a lifecycle of an event from the planning, implementing, monitoring, and controlling phases. Emphasis is on the processes of initiating, planning, executing, controlling, and closing activities of project management. **Students in this course are eligible to participate in DECA.**

BUSINESS AND MARKETING CAPSTONE 12997G05011 * DECA Officer Team Only
Credit: 0.5
Semester Course
Prerequisite: DECA Officer & Teacher Signature
Grade: 10, 11, 12

This is the course for students serving on the DECA Officer Team to learn leadership & management skills while developing and administering Conifer DECA's program of work. This course allows for individualized, advanced, and/or cumulative work in a program of study. This work is individualized to the student within a specific program of study to allow for specialized study. It may include problem-/project-based learning or preparation for industry certification. The specific content and course design is determined by the instructor, in collaboration with the individual student. This class is designed to strengthen the awareness of an individual's leadership potential. Students will be challenged to understand what leadership is and how to apply that to their personal lives. Students will look at how leadership skills influence and bring about change in an organization, along with learning how leadership theories have progressed over time. **Membership in DECA is required.**

STRATEGIC MARKETING – IND STUDY 12152G05011
Credit: 0.5
Semester Course
Prerequisite: 2 years marketing classes & instructor approval
Grade: 11, 12

Strategic Marketing illustrates the connections between a market-driven strategy, customer satisfaction, and profitable growth. Students will examine how marketing strategies are developed and executed within both small and large organizations THROUGH INDEPENDENT STUDY PROJECTS. The course will emphasize strategy development, implementation, and evaluation. **Membership in DECA is required.**

WORK-BASED LEARNING: MARKETING 12998G05011

Credit: 0.5
Semester Course
Prerequisite: Completion of, or Co-enrollment in, a Marketing class
Grade: 9-12

Did you know you can get school credit while earning money at your job? The Work-based Learning (WBL) experience allows for the application of the Knowledge, Skills, and Abilities that are delivered through the coursework of the Program of Study (POS). Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. 60 hours of work is equivalent to .5 elective credit. Work-based Learning must follow Board Policy. Student must have taken or be co-enrolled in a CTE course, and the work experience must relate to the CTE Program in which it is housed.

PRINCIPLES OF MARKETING ~~**12164G05011**~~ **Offered Again in 2027**

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9,10,11,12
This course will be offered in 2026-27

Principles of Marketing presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer. This class addresses all seven marketing standards. The class is interactive, project & case-study based and explores current industry trends, challenges & opportunities. **Students in this course are eligible to participate in DECA.** This class is offered on a 3 year cycle. ***This course will be offered in 2026-27***

BUSINESS/MARKETING ESSENTIALS ~~**12055G05011**~~ **Offered Again in 2028**

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9,10,11,12

Business & Marketing Essentials is an introductory course that enables students to acquire a realistic understanding of business processes and activities. Students examine fundamental economic concepts, the business environment, and primary business activities. This is the 2024 class offering that will best prepare students for DECA competition! Students will develop an understanding of and skills in customer relations, economics, emotional intelligence, financial analysis, human resources management, information management, marketing, operations, professional development & strategic management. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills. This class addresses all seven marketing standards. The class is interactive, project & case-study based and explores current industry trends, challenges & opportunities. **Students in this course are eligible to participate in DECA.** This class is offered on a 4 year cycle.

EVENT MARKETING/COMMUNICATIONS 12163G05011 Offered Again in 2029

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9, 10,11,12

Event Marketing/Communications defines the importance and role of marketing, media and public relations in the event planning industry. Identify marketing and communication tools such as social media, promotional events, networking and blogs. Design a marketing plan to include target market research, communication tools, objectives, strategies, and implementation. Students have the opportunity to build leadership skills and learn strategies to handle competitive situations by participating in DECA. **Students in this course are eligible to participate in DECA.** This class is offered on a 3 to 4 year cycle.

DECA is a student-run organization for marketing students. Through DECA a student will have the opportunity to travel to marketing conferences, meet new people, and have fun while building confidence in the business world. DECA provides a remarkable experience in preparing emerging leaders and entrepreneurs to be college and career ready through teamwork and competition. Members learn how to communicate thoughts and ideas, how to organize presentations and what businesses expect from employees and owners, all while gaining problem solving skills and industry knowledge. Membership is available through enrollment in marketing courses and $75 membership fee

COMPUTERS / ENGINEERING / TECHNOLOGY / STEM 

https://sites.google.com/jeffcoschools.us/ehalingstad/classes

These courses are open to all students interested in exploring Robotics, architectural, mechanical and other engineering fields. Students can work through multiple levels of drafting using CAD software like AutoCAD and SolidWorks. Concepts will include fundamentals of layout, construction and dimensioning techniques as applied to two and three dimensional drawings in both mechanical and architectural disciplines.
Concurrent enrollment opportunities allow for high school credit as well as Red Rocks Community College credit for many of these courses. Consequently, the majority of the student's work will be done on the computer using the same Computer Assisted Drafting & Design (CADD) that is used in the college.

- Most courses should be taken as a year-long sequence.
- See the Engineering Design syllabus for more information.

https://sites.google.com/jeffcoschools.us/ehalingstad/classes/CADsyllabus

- All Engineering and Technology classes at CHS meet the requirements for academic elective (Fine Arts / CTE) credit as stated by the Colorado Commission of Higher Education.
- All Computer Science classes at CHS satisfy the Jefferson County math requirement for graduation.
- All Computer Science, Engineering and Technology classes at CHS are Career & Technical Education courses which provide opportunities for Work-Based Learning, leadership development through the Robotics Club (Career and Technical Student Leadership Organization), and relevant industry and job training.

STEM Endorsed Diploma

Conifer High School students have the opportunity to earn a state recognized **STEM Endorsed Diploma**. To earn a Colorado STEM Endorsed Diploma students must:

- Earn 4 STEM related credits beyond those required for graduation* with a 3.5 GPA in those additional courses (* may include 4th year of math and/or science and any STEM related electives)
- Complete a STEM Capstone (with the support of a STEM advisor)
- Demonstrate a High Proficiency in Math (600+ math SAT, 4+ AP math, 100 + math Accuplacer, etc.)

For more information, please check with your Counselor

INTRODUCTION TO DRAFTING AND DESIGN CONCEPTS 21102G05014 & 21102G05024

(RRCC- CAD 1101: Computer Aided Drafting/2D I)
Credit: 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course
Take both course numbers to complete the yearlong sequence

This course offers students the opportunity to combine design principles with technology to produce authentic projects. The initial focus will be on developing an understanding of the visual elements and the principles of design. Students will study both two and three-dimensional applications and problems. Students will explore areas such as: graphic design, architectural design, landscaping design, manufacturing design and interior design. Students will use drafting skills to produce detailed working drawings, sectionals, auxiliary, fasteners, and simple architectural floor plans. Students will also work in design teams to create pattern development and design and produce prototypes. They will be introduced to computer design software such as Google Sketch, SolidWorks, AutoCAD, and ArchiCad.

Introduction to Drafting and Design Concepts, serves all emphasis areas of engineering graphics. Course content includes fundamentals of layout, construction and dimensioning techniques as applied to two-dimensional drawings; systems and database management; and production of computer-generated drawings to ASME, AIA and other applicable specifications. The majority of the student's work will be done on the computer using AutoCAD, the same Computer Assisted Drafting & Design (CADD) software that is used in the college.
*Aligns to RRCC, CAD 1101 (3 credits) & CAD 1102 (3 credits)

- 2 Dimensional Drawing with AutoCAD
- Use a Plotter, Laser Engraver/Cutter & Desktop Waterjet

This class is being offered for free Concurrent Enrollment College Credit through Red Rocks Community College. In order to qualify for Concurrent Enrollment credit, students are expected to complete a post-secondary registration form at their high school. It is the responsibility of the student to check with the college which they are interested in attending, after high school graduation, to verify credit will transfer. These grades will be transcripted on both the Jeffco and Red Rocks Community College transcripts.

If a student wishes to transfer Concurrent Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript.

When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class.

*http://www.cde.state.co.us/postsecondary/concurrentenrollment

INTRODUCTION TO TECHNICAL DRAWING/DESIGN 21102G05034 & 21102G05044

(RRCC- CAD 2450: Solid Works Basic
Credit: 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course
Take both course numbers to complete the yearlong sequence

This yearlong course develops skills in drafting and design of structures and products. This is accomplished by introducing a design process of refining sketches through technical hand and computer-aided drafting. The use of a CAD-CAM program will allow students to visually apply creative design elements to specific projects.
Introduction to Technical Drawing/Design, three-dimensional concept design models are created using as-build assemblies, layouts, sketches and existing concept designs. Two-dimensional extractions from the three-dimensional models, dimensioning and annotations are required. The majority of the student's work will be done on the computer using SolidWorks, the same Computer Assisted Drafting & Design (CADD) software that is used in the college.
*If a full year of this course is taken, the course aligns to RRCC, CAD 2450 (6 credits)

- 3 Dimensional Drawing with SolidWorks
- Use a 3D Printers, CNC Mill & Desktop Waterjet

This class is being offered for free Concurrent Enrollment College Credit through Red Rocks Community College. In order to qualify for Concurrent Enrollment credit, students are expected to complete a post-secondary registration form at their high school. It is the responsibility of the student to check with the college which they are interested in attending, after high school graduation, to verify credit will transfer. These grades will be transcripted on both the Jeffco and Red Rocks Community College transcripts.

If a student wishes to transfer Concurrent Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript.

When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class.
*http://www.cde.state.co.us/postsecondary/concurrentenrollment

ROBOTICS & AUTOMATED SYSTEMS 21109G05012 & 21109G05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course
Take both course numbers to complete the yearlong sequence

Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have

an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

ENGINEERING 3: COMPUTER INTEGRATED MANUFACTURING 21010G05012 & 21010G05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: Completion of Introduction to Technical Drawing/ Design course and Teacher Approval
Grade: 10,11,12
Fee associated with this course
Take both course numbers to complete the yearlong sequence

Engineering 3: Computer Integrated Manufacturing is an applied course for students interested in further developing their skills as future mechanical engineers. This course covers knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, describe differences between laws related to fluid power systems, explain the importance of material and mechanical properties to design, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others. **In addition, students will apply principles of robotics and automation used in manufacturing.**
Engineering students will understand how to work in design teams and implement the Engineering Design Process on a variety of challenges. By engaging in the design process students will understand how to define problems, develop potential solutions, define and consider criteria and constraints, prototype and test solutions, and improve upon their designs as well as the role of reverse engineering. Throughout the design process, students will also develop technical skills such as technical sketching, drawing, and writing, advanced computer modeling (CAD), beginning programming, measurement, and statistical analysis. Career exploration of a variety of engineering disciplines is also a key component of this course.

This class is being offered for free Concurrent Enrollment College Credit through Red Rocks Community College. In order to qualify for Concurrent Enrollment credit, students are expected to complete a post-secondary registration form at their high school. It is the responsibility of the student to check with the college which they are interested in attending, after high school graduation, to verify credit will transfer. These grades will be transcripted on both the Jeffco and Red Rocks Community College transcripts.

If a student wishes to transfer Concurrent Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript.

When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class.

*http://www.cde.state.co.us/postsecondary/concurrentenrollment

AP COMPUTER SCIENCE PRINCIPLES 10019H05012 & 10019H05022

Credit: 1.0

Full Year Course
Prerequisite: Strong Algebra or Geometry background. Preferably completion of an Engineering course to show basic fluency with a computer.
Grade: 10,11,12
Take both course numbers to complete the yearlong sequence

AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.
For more information, see the College Board websites:
https://apcentral.collegeboard.org/courses/ap-computer-science-principles
OR https://apstudents.collegeboard.org/courses/ap-computer-science-principles

AP COMPUTER SCIENCE A 10157HG05012 & 10157HG05022
Credit: 1.0
Full Year Course
Prerequisite: Completion of Algebra 2 or higher. and completion of AP Computer Science Principles or Teacher Approval.
Grade: 11,12
Take both course numbers to complete the yearlong sequence

AP Computer Science A - AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Students learn the advanced Java programming skills needed in preparation for the AP Computer Science exam. Because the designated outcomes for the AP Computer Science exam change yearly, consult the AP web site for more information.
For more information, see the College Board website:
https://apstudents.collegeboard.org/courses/ap-computer-science-a

COMPUTER SYSTEMS 10254G05012 & 10254G05022
Credit: 1.0
Full Year Course
Prerequisite: INSTRUCTOR PERMISSION.
Grade: 10,11,12
Take both course numbers to complete the yearlong sequence

Computer Systems is an intermediate course designed to prepare students with work-related skills and aligned certification in the information technology industry. Content provides students the opportunity to acquire knowledge in both theory and practical applications pertaining to hardware,

operating systems, safe mode, command prompt, security, networking, printers, peripheral devices, laptops, mobile devices, troubleshooting, and customer service management. Upon completion of the course, proficient students will have acquired skills and knowledge to install, configure, and maintain computer systems. Students who are proficient in this course will be eligible to pursue the IT industry-standard credential, CompTIA's A+ certification.
See Mr. Halingstad for more information.

CAPSTONE: STEM 22999G05012 & 22999G05022
Credit: 0.5
Year Long
Prerequisite: INSTRUCTOR PERMISSION
Grade: 12

The STEM Capstone is a student driven culminating project in a science, technology, engineering, or mathematics pathway. Students will work with professional STEM mentors as they define and navigate an investigation or design solution related to a STEM discipline of their choosing. Through the STEM Capstone students will demonstrate mastery in the following STEM skills (as defined by the Jeffco STEM Capstone Rubric): asking questions and defining problems, applying scientific and mathematical models to explain complex ideas, planning and carrying out investigations, analyzing and interpreting data, using mathematics and computational thinking, constructing explanations or designing solutions, engaging in argument from evidence, collaboration and leading by influence, and self-direction and personal responsibility. Students will demonstrate mastery through a portfolio of work linking their capstone project to the defined STEM skills and a public presentation of their solution and/or findings. The STEM Capstone is a required component of the STEM Endorsed Diploma.

WBL: ENGINEERING 21048G05011
Credit: 0.5
Semester Course
Prerequisite: Co-enrollment in an Engineering Class
Grade: 11,12

Did you know you can get school credit while earning money at your job? The Work-based Learning (WBL) experience allows for the application of the Knowledge, Skills, and Abilities that are delivered through the coursework of the Program of Study (POS). Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. 100 hours of internships is equivalent to .5 elective credit. Work-based Learning must follow Board Policy. Students must be co-enrolled in a CTE course, and the work experience must relate to the CTE Program in which it is housed.
See your counselor or Ms. Hall for more information.

STEM Science, Technology, Engineering, Mathematics

Computer Science Engineering Technology

Concurrent Enrollment Available (Red Rocks Community College Credit)

CSWA (Certified SolidWorks Associate) Certificate Available

3D SolidWorks (9, 10, 11 & 12)

Intro to Technical Drawing/Design
21102G05034 & 21102G05044

CAD 2450 (6) - SolidWorks Basics

Intro to AutoCAD Certificate Available

2D AutoCAD (9, 10, 11 & 12)

Intro to Drafting and Design Concepts
21102G05014

CAD 1101 (3)
Computer Aided Drafting/2D I

Intro to Drafting and Design Concepts
21102G05024

CAD 1102 (3)
Computer Aided Drafting/2D II

Other Classes Available Classes

(9, 10, 11 & 12)

Robotics & Automated Systems
21009G05012 & 21009G05022

Yearlong course for all students.

(10, 11 & 12)

AP Computer Science Principles
10019G05012 & 10019G05022

Yearlong course for all students. Strong Algebra or Geometry background suggested (10th or above)

(11 & 12)

AP Computer Science A
10157H05012 & 10157H05022

Yearlong course. Completion of Algebra 2 or higher. Completion of AP CS Principles suggested.

Computer Systems
10254G05012 & 10254G5022
(10, 11 & 12)

Hybrid Course
Yearlong Course
see Counselor or Mr. Halingstad

CAPSTONE: STEM
(12)

See Counselor
Instructor Permission
12th Grade

Engineering 3: Computer Integrated Manufacturing
21010G05012 & 21010G05022

CAD 2451 (6) - SolidWorks Inter
May be taken multiple times after 1 year of Technical Drawing/Design

Color Purpose: Suggested Prerequisites for Success in Course | Red Rocks Community College Course Info

STEM Science, Technology, Engineering, Mathematics

Computer Science Engineering Technology

AP Computer Science

Computer Science: The New Literacy

Whether it's 3-D animation, engineering, music, app development, medicine, visual design, robotics, or political analysis, computer science is the engine that powers the technology, productivity, and innovation that drive the world. Computer science experience has become an imperative for today's students and the workforce of tomorrow.

Why Computer Science?

Every 21st century student should have the opportunity to learn computer science (CS). The basics of CS help nurture creativity and problem-solving skills, and prepare students for a future in any field or career.

AP Computer Science Principles is an introductory computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing. For more information, see the College Board websites:
https://apcentral.collegeboard.org/courses/ap-computer-science-principles
https://apstudents.collegeboard.org/courses/ap-computer-science-principles

*This is a full year course available to **all** students with a strong Algebra background and preferably completion of an Engineering Design course to show basic fluency with a computer.*

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. For more information, see the College Board website:

https://apstudents.collegeboard.org/courses/ap-computer-science-a

This is a full year course available to students concurrently enrolled in Pre-Calculus or above and preferably completion of AP Computer Science Principles.

Computer Systems

Computer Systems is an intermediate course designed to prepare students with work-related skills and aligned certification in the information technology industry. Content provides students the opportunity to acquire knowledge in both theory and practical applications pertaining to hardware, operating systems, safe mode, command prompt, security, networking, printers, peripheral devices, laptops, mobile devices, troubleshooting, and customer service management. Upon completion of the course, proficient students will have acquired skills and knowledge to install, configure, and maintain computer systems. Students who are proficient in this course will be eligible to pursue the IT industry-standard credential, CompTIA's A+ certification.

Learning that works for America CTE™

These courses are offered through our Career and Technical Education Department, http://cte.coniferhs.org and meet the requirements for academic elective (Fine Arts / CTE) credit as stated by the Colorado Commission of Higher Education. These CTE courses provide opportunities for Work-Based Learning, leadership development through the Robotics Club and relevant industry and job training.

Club and Student Organization: Robotics Club

Team Blitz, http://teamblitz.net/ meets here at Conifer High School, Tuesday Evenings in Rooms A33&35.

FIRST
FOR INSPIRATION AND RECOGNITION OF SCIENCE AND TECHNOLOGY

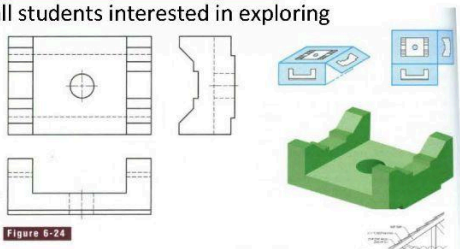
More information? contact Eric Halingstad ehalings@jeffco.k12.co.us - 303.982.5273
Conifer High School, 10441 Hwy 73, Conifer, CO 80433

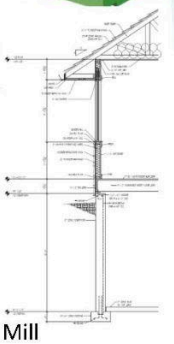
STEM Science, Technology, Engineering, Mathematics

Computer Science Engineering Technology

Engineering

There is no limit to where this technology is going! Learning CAD is open to all students interested in exploring architectural, mechanical, robotic and other engineering fields. Students can work through multiple levels of drafting using CAD software like AutoCAD and SolidWorks. Concepts will include fundamentals of layout, construction and dimensioning techniques as applied to two and three dimensional drawings in both mechanical and architectural disciplines.





- **Introduction to Drafting and Design Concepts** 1 & 2 (1 Semester ea)
  - CAD 1101 & 1102 Computer-Aided Drafting/2D
  - 2D – Use a Plotter and Laser Engraver / Cutter
  - Students that complete the full year sequence can earn an "Intro to AutoCAD" certificate.
- **Introduction to Technical Drawing/Design** 1 & 2 (1 Semester ea, Year Long)
  - CAD 2540 SolidWorks Basics/3D
  - 3D – Use a 3D Printer and CNC Mill
  - Students that complete the full year sequence will test for the "Certified SOLIDWORKS Associate" CSWA Industry certification.
- **Engineering 3** 1 & 2 (1 Semester ea, Year Long)
  - CAD 2541 SolidWorks Intermediate/3D
  - 3D&2D – Use multiple tools like: 3D Printer, Laser Engraver, WaterJet, CNC Router & CNC Mill
  - Students that complete the full year sequence will test for the "Certified SOLIDWORKS Professional" CSWP Industry certification.

*Introduction to Drafting & Design and Introduction to Technical Drawing/Design are full year courses available to **all** students.*

Engineering 3 is available to students having completed Intro to Technical Drawing/Design.

Students will reinforce math skills and develop a crucial skill for a future engineering career.

Are you thinking of a career in engineering? Then a CAD class should be in your schedule.

RED ROCKS COMMUNITY COLLEGE **Community College Credit is available for most Engineering Design classes.**

Robotics







Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

*This is a full year course available to **all** students.*

More information? contact Eric Halingstad ehalings@jeffco.k12.co.us - 303.982.5273
Conifer High School, 10441 Hwy 73, Conifer, CO 80433

THEATRE



The theater curriculum at Conifer High School includes a variety of courses that will build performance skills and offer students a means for creative expression. Theatre Arts is an integral part of force in the everyday life of people around the world. This force connects each new generation to those who have gone before. Students need Theatre Arts to make these connections and to express the otherwise inexpressible. The Conifer Theatre Program is designed to meet the needs of a cultured individual. It is a positive way for students to learn about life's actions and consequences, about customs and beliefs in themselves and others.

DRAMA STANDARDS

1. Students will develop interpersonal skills and problem-solving capabilities through group interaction and artistic collaboration.
2. Students will understand and apply the creative process to fundamental skills of acting, singing and directing.
3. Students will understand and apply the creative process to the skills of design and technical production.
4. Students will understand and relate the role of theater arts to culture and history.
5. Students will know and apply the connections between theater and other disciplines

THEATRE BEGINNING **05055G05014 & 05055G05024**

Credit: 0.5
Semester Course OR Year Long
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Theater Beginning introduces students to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership.

THEATRE INTERMEDIATE **05055G05034 & 05055G05044**

Credit: 0.5
Semester Course OR Year Long
Prerequisite: Performance & Communication A
Grade: 10,11,12
Fee associated with this course
Course may be taken more than once.

Theatre intermediate introduces students to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership.

TECHNICAL THEATRE BEGINNING 05056G05014 & 05056G05024

Credit: 0.5
Semester Course OR Year Long
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Technical Theatre Beginning introduces methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. This course explores the proper procedures of serving on stage crews.

TECHNICAL THEATRE INTERMEDIATE 05056G05034 & 05056G05044

Credit: 0.5
Semester Course OR Year Long
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Technical Theatre Beginning introduces methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. This course explores the proper procedures of serving on stage crews.

THEATRICAL PROD AND MANAGEMENT 05061G05012 & 05061G05022

Credit: 0.5
Semester Course OR Year Long
Prerequisite: Performance & Communication B or Technical Theatre B & Teacher Approval
Grade: 10,11,12
Fee associated with this course

Theatrical Production and Management courses prepare students to manage the planning, design, preparation, and production of plays and other theatrical performances. Course content may include instruction in theatrical design, program management, dramatic production, rehearsal management, personnel management and casting, actor coaching, directing concepts and techniques, dramaturgy, script interpretation, business management, marketing, public relations, and communications skills.

All Acting Performance & Technical are Career & Technical Education courses and meet the requirements for academic electives as stated by the Colorado Commission of Higher Education. Classes count for "Art" elective credit at Conifer HS. **All classes provide opportunities for Work-Based Learning and relevant industry and job training.**

EXCEPTIONAL EDUCATION 

It is the vision of the Exceptional Education Team that an educational climate exists where diversity and individuality are celebrated and respected, and where all teachers accept and meet the challenge of enhanced learning of all students. The promotion of individualized transition plans for our students will assure successful completion of school, career and personal goals.

A Response to Intervention (RTI) model is utilized as collaboration between administrators, general and special education teachers and parents to develop a systematic plan which meets the needs of students requiring educational supports, preventing failure in school.

The Conifer High School exceptional education team may implement the following services

- Co-taught classes
- Individualized and specialized instruction
- Classroom accommodations and modifications
- Social/Emotional support
- Post high school transition planning
- Implementation of meaningful learning strategies
- Teaching self-advocacy skills
- Career exploration
- Monitoring academic progress

Course selections will be made with the student's team.

AP CAPSTONE 

AP Capstone™ is a diploma program from the College Board based on two yearlong AP courses: AP Seminar and AP Research.

Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world.

Students can earn the AP Capstone Diploma™ or the AP Seminar and Research Certificate™.

- Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™.
- Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate™.

AP SEMINAR - N 25003H05012 & 25003H05022

Credit: 0.5 (1 credit per year)
Full year course
Prerequisite: None
Grade: 11, 12
Fee Associated with course

Designed by the College Board to parallel college-level courses in critical thinking and communications, AP Seminar courses provide students with the opportunity to explore complex real world issues through cross-curricular lenses. Course topics vary and may include local, civic, or global issues and interdisciplinary subject areas. Courses typically emphasize research, communication, and critical thinking skills to explore the issues addressed. Students may also examine source materials such as articles and other texts; speeches and personal accounts; and relevant artistic and literary works.

**Please Note: This is a year-long course and cannot be added/dropped at semester due to the full year single project model. Students who drop this course at semester, will fail the second semester of AP Seminar.

AP RESEARCH - N 25004H05012 & 25004H05022

Credit: 0.5 (1 credit per year)
Full year course
Prerequisite: AP Seminar
Grade: 12
Fee Associated with course

Designed by the College Board to parallel college level courses in independent research, AP Research courses provide students with the opportunity to conduct an in-depth, mentored research project. Course topics include research methods, ethical research practices, and accessing, analyzing, and synthesizing information to address a research question. Courses culminate with an academic

thesis paper and an oral defense of the research design, approach, and findings..

**Please Note: This is a year-long course and cannot be added/dropped at semester due to the full year single project model. Students who drop this course at semester, will fail the second semester of AP Research.

LANGUAGE ARTS



Conifer High School shares the responsibility of ensuring that our students possess the power of language. Upon graduation from Conifer High School student's proficient in English will think, read, write, speak, listen and view proficiently. They will choose the best means of communication to participate actively in and understand their world. They will evaluate their own English language arts abilities and continue to learn and enjoy the English language arts throughout their lives. Students will maintain a portfolio on which they will reflect at the end of the semester.

ENGLISH CONTENT STANDARDS

1. Students read and understand a variety of materials.
2. Students read and recognize literature as an expression of human experience.
3. Students write effectively for a variety of purposes and audiences.
4. Students speak and listen for effective communication in a variety of contexts.
5. Students apply conventions of language for effective communication.

RECOMMENDED PATH	AP PATH
ENGLISH/LANGUAGE ARTS 12 AP ENGLISH LANGUAGE AND COMP (GRADES 11,12) AP ENGLISH LIT AND COMP (GRADES 11,12)	AP ENGLISH LIT AND COMP (GRADES 11,12)
ENGLISH/LANGUAGE ARTS 11	AP ENGLISH LANGUAGE AND COMP (GRADES 11,12)
ENGLISH/LANGUAGE ARTS 10	ENGLISH/LANGUAGE ARTS 10 – HONORS
ENGLISH/LANGUAGE ARTS 9	ENGLISH/LANGUAGE ARTS 9 – HONORS

N=NCAA Core Courses

ENGLISH/LANGUAGE ARTS 9 - N 01001G05012 & 01001G05022
Credit: 0.5 credit per semester (1 credit per year)
Full Year Course
Prerequisite: None
Grade: 9

English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. Study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction.

ENGLISH/LANGUAGE ARTS 9 HONORS - N 01001H05012 & 01001H05022

Credit: 0.5 credit per semester (1 credit per year)
Full Year Course
Prerequisite: None
Grade: 9

English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. Study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

ENGLISH/LANGUAGE ARTS 10 – N 01002G05012 & 01002G05022

Credit: 0.5 per semester. (1 credit per year)
Full Year Course
Prerequisite: ELA 9
Grade: 10

English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well through presentations.

ENGLISH/LANGUAGE ART 10 HONORS - N 01002H05012 & 01002H05022

Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: ELA 9
Grade: 10

English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well as through presentations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more

complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

ENGLISH/LANGUAGE ARTS 11 – N 01003G05012 & 01003G05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: 10th Grade English
Grade: 11

English/Language Arts 11 develops students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, which students apply to compositions that utilize research and rhetoric. Students read nonfiction and literary works as a means to understand the world and to inform their writing. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. Participation in class dialogue and delivering presentations are expectations of this course.

AP ENGLISH LANGUAGE AND COMPOSITION 11 - N 01005H05012 & 01005H05022
Credit: 0.5 (1 credit per year)
Full Year Course
Prerequisite: 10th Grade English
Grade: 11, 12

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes. https://apstudent.collegeboard.org/apcourse/ap-english-language-and-composition AP English Language & Composition (Grade 11)

ENGLISH/LANGUAGE ARTS 12 - N 01004G05012 & 01004G05022
Credit: 0.5
Full Year Course
Prerequisite: Junior English
Grade: 12
Fee associated with this course

English/Language Arts 12 blends and combines purposes, patterns, and genres in writing while incorporating research and rhetoric techniques. Collaboration and critical thinking lead to more complex presentations and products with students honing their comprehension skills while reading more complicated literary and nonfiction texts.

AP LITERATURE AND COMPOSITION - N 01006H05012 & 01006H05022

Credit: 0.5 per semester. (1 credit per year)
Full Year Course
Prerequisite: None
Grade: 11, 12

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing). https://apstudent.collegeboard.org/apcourse/ap-english-literature and-composition AP English Literature & Composition (Grade 12)

MATH



The Mathematics Department of Conifer High School recognizes the need for members of our society be able to use one's sense of number, shape, data and symbols to organize, interpret, make and assess the validity of claims about quantitative information. Mathematics provides not only the tools of arithmetic, algebra, geometry, and statistics, but also offers a way of thinking about patterns and relationships of quantity and space and the connections among them. Mathematical reasoning allows us to devise and evaluate methods for solving problems, make and test conjectures about properties and relationships, and model the world around us.
The mathematics classes at Conifer High are designed to focus on building conceptual understanding, procedural fluency, and ability to apply math concepts while solving problems which incorporate real-life applications and mathematical modeling. Assessments will include both calculator and non-calculator requirements for a balanced approach to the effective use of calculators as mathematical tools. Graphing calculators will be used in all math courses offered a CHS and are therefore a requirement for each class.

The CHS Math curriculum is aligned to Jefferson County's math curriculum guidelines which follow the Colorado Academic Math Standards. The math department is committed to providing students with multiple pathways for meeting the graduation requirements for mathematics and preparation for college and career endeavors.

The Colorado Academic Mathematics Standards:

- **Number Sense, Properties, and Operations:** Number sense provides students with a firm foundation in mathematics. Students build a deep understanding of quantity, ways of representing numbers, relationships among numbers, and number systems. Students learn that numbers are governed by properties and understanding these properties leads to fluency with operations.
- **Patterns, Functions, and Algebraic Structures:** Pattern sense gives students a lens with which to understand trends and commonalities. Students recognize and represent mathematical relationships and analyze change. Students learn that the structures of algebra allow complex ideas to be expressed succinctly.

3. **Data Analysis, Statistics, and Probability:** Data and probability sense provides students with tools to understand information and uncertainty. Students ask questions and gather and use data to answer them. Students use a variety of data analysis and statistics strategies to analyze, develop and evaluate inferences based on data. Probability provides the foundation for collecting, describing, and interpreting data.

- **Shape, Dimension, and Geometric Relationships:** Geometric sense allows students to comprehend space and shape. Students analyze the characteristics and relationships of shapes and structures; engage in logical reasoning, and use tools and techniques to determine measurement. Students learn that geometry and measurement are useful in representing and solving problems in the real world as well as in mathematics.

Modeling across the Standards

Modeling standards are incorporated throughout the high school math standards. Modeling is the process of choosing and using appropriate mathematics, statistics, and tools to analyze empirical situations, to understand them better, and to improve decisions.

Pathways ⇨	9th Grade Options	10th Grade Options	11th Grade Options	12th Grade Options
Informal/Career Path	*Algebra 1 with a Math Lab for support	*Geometry	*Algebra-Intermediate †AP Computer Science Principles	*Algebra 2 *Discrete Math †AP Computer Science Principles
College Readiness Path	*Algebra 1	*Geometry *Geometry Honors †AP Computer Science Principles	*Algebra-Intermediate *Algebra 2 *Algebra 2 Honors †AP Computer Science Principles	*Algebra 2 *Discrete Math *Pre-Calculus/Trig *AP Pre-Calculus/Trig †AP Computer Science Principles

Advanced Placement Path	*Alg I /Geom Part A *Geometry *Geometry Honors	*Geom Part B/Alg 2 *Algebra 2 *Algebra 2 Honors †AP Computer Science Principles	*Pre-Calculus/Trig *AP Pre-Calculus/Trig †AP Computer Science Principles	*AP Calculus AB *AP Statistics *AP Computer Science Principles †AP Computer Science A		
GT Pathway (For students two years ahead of their peers by content)	*Algebra 2 Honors	*Pre-Calculus/Trig *AP Pre-Calculus/Trig †AP Computer Science Principles	*AP Calculus AB *AP Statistics *AP Computer Science Principles †AP Computer Science A	*AP Statistics *AP Calculus BC / Multivariable Calculus (Calc III) †AP Computer Science Principles †AP Computer Science A		

Note:

- The Pathways move horizontally with multiple options provided in the pathway.
- No paths are exclusive. Students may move between honors and regular depending on teacher recommendations and pre-requisite skills and content knowledge.
- The Math department highly recommends that students who are planning to take Honors Algebra 2, take Honors Geometry (instead of regular Geometry) because of the accelerated pace of the curriculum in preparation for students to be on a pathway to take BC Calculus.
- Inferential Probability & Statistics is designated for **seniors** and **ONLY** by teacher/math department recommendation.
- Students CANNOT skip a level in Math without documentation of knowledge of the content.
- †NOTE: AP Computer Science courses meet 'Math' credits for Jeffco graduation requirements, but Do Not necessarily meet HEAR requirements for specific college program admittance. We recommend these courses be taken IN ADDITION to a traditional mathematics course. These courses can be taken concurrently until students complete Pre-Calculus/Trig as a minimum.

*Individual student placement will be based on mastery of pre-requisite skill. Multiple data points will be used to determine placement.

N= NCAA Core Courses

ALGEBRA I - N 02052G05014 & 02052G05024

Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: **TEACHER SIGNATURE**
Grade: 9
REQUIRED: TI GRAPHING CALCULATOR

This course covers all of the grade-level Colorado Academic Standards for Mathematics aligned to Algebra I through the use of a high-quality curriculum. Mathematical reasoning, modeling, problem solving and communication are developed throughout the units of study.
****This course may be applied towards a STEM Endorsed Diploma**

GEOMETRY PART B / ALGEBRA II - N 02061H05034 & 02061H05044
Credit: 0.5 per semester. (1 credit per year)
Full Year Course
Prerequisite: **TEACHER SIGNATURE**
Grade: 10
REQUIRED: TI GRAPHING CALCULATOR

Algebra 1/Geometry Part A is an accelerated course that provides an integrated approach to learning mathematics combining concepts of Algebra 1 and Geometry. This course is the first of two courses that combines the concepts of Algebra 1, Geometry and Algebra 2. The algebraic focus of this course is to deepen and extend understanding of linear relationships, contrasting them with exponential phenomena, and exploring quadratic relationships. The Algebra 1 standards in this course contain descriptive statistics. The geometric focus of this course includes students building an understanding of congruence based on rigid transformations and using coordinates to prove simple geometric theorems. Students apply the mathematical practice standards when integrating their experiences with functions and geometry, investigating mathematical relationships and developing multiple strategies for analyzing complex situations.

GEOMETRY – N 02072G05014 & 02072G05024
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: Algebra I & **TEACHER SIGNATURE**
Grade: 9, 10,
REQUIRED: TI GRAPHING CALCULATOR

This course covers all of the grade-level Colorado Academic Standards for Mathematics aligned to Geometry through the use of a high-quality curriculum. Mathematical reasoning, modeling, problem solving and communication are developed throughout the units of study.
****This course may be applied towards a STEM Endorsed Diploma**

GEOMETRY HONORS - N 02072H05012 & 02072H05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: Algebra I and **TEACHER SIGNATURE**
Grade: 9, 10
REQUIRED: TI GRAPHING CALCULATOR

This course covers all of the grade-level Colorado Academic Standards for Mathematics aligned to Geometry through the use of a high-quality curriculum. Mathematical reasoning, modeling, problem solving and communication are developed throughout the units of study.
****This course may be applied towards a STEM Endorsed Diploma**

If a Middle School student completes this class they will not receive Honors Credit and this Course will not be calculated in the Students GPA

ALGEBRA II - N 02056G05012 & 02056G05022
Credit: 0.5 per semester. (1 credit per year)
Full Year Course
Prerequisite: Algebra Intermediate or Geometry, **TEACHER SIGNATURE**
Grade: 10, 11, 12
REQUIRED: TI GRAPHING CALCULATOR
Fee associated with this course

This course covers all of the grade-level Colorado Academic Standards for Mathematics aligned to Geometry through the use of a high-quality curriculum. Mathematical reasoning, modeling, problem solving and communication are developed throughout the units of study.
****This course may be applied towards a STEM Endorsed Diploma**

ALGEBRA II HONORS – N 02056H05012 & 02056H05022
Credit: 0.5 per semester. (1 credit per year)
Full year Course
Prerequisite: Honors Geometry or Geometry, **TEACHER SIGNATURE**
Grade: 9,10,11,12
REQUIRED: TI GRAPHING CALCULATOR

This course covers all of the grade-level Colorado Academic Standards for Mathematics aligned to Geometry through the use of a high-quality curriculum. Mathematical reasoning, modeling, problem solving and communication are developed throughout the units of study.
****This course may be applied towards a STEM Endorsed Diploma**

If a Middle School student completes this class they will not receive Honors Credit and this Course will not be calculated in the Students GPA

PRE-CALCULUS/TRIG – N 02110G05012 & 02110G05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: Algebra II or Algebra II Honors, **TEACHER SIGNATURE**
Grade: 11, 12
REQUIRED: TI GRAPHING CALCULATOR

This course combines the study of trigonometry, elementary functions, analytical geometry and math analysis topics as preparation for calculus. Topics include the study of complex numbers, polynomial, logarithmic, exponential, rational, right trigonometric and circular functions and their relations, inverses, and graphs, trigonometric identities and equations, solutions of right and oblique triangles, vectors, parametric equations and their graphs, the polar coordinate system, conic sections, and limits. NOTE: This class includes Calculus A topics.

AP PRE-CALCULUS N- 02114H05012 & 02114H05022
Credit: 0.5 per semester

Full Year Course
Prerequisite: Algebra II Honors or Algebra II, **TEACHER SIGNATURE**
Grade: 11, 12
REQUIRED: TI GRAPHING CALCULATOR
Fee associated with this course

Following the College Board's suggested curriculum designed to parallel college-level precalculus courses, AP Precalculus courses introduce students to mathematical modeling and functions that serve as a foundation for calculus and other college-level mathematics needed for a variety of STEM majors and careers. Topics typically include polynomial & rational functions, exponential and logarithmic functions, trigonometric & polar functions, and functions involving parameters, vectors, and matrices. *****Disclaimer: The post-secondary transcript and post-secondary transferability of this course is unknown at this time. There is no guarantee that students who pass the AP exam will receive post-secondary credit in an applicable pathway.***

DISCRETE MATHEMATICS N-02102G05012 &02102G05022

Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: Algebra 1, Geometry, **TEACHER SIGNATURE**
Grade: 12
REQUIRED: TI GRAPHING CALCULATOR

This full year course extends the study of the one semester course topics which include: problem solving, number theory, mathematical systems, financial literacy, the mathematics of graphs, inductive and deductive reasoning, set theory and graph theory. Additional topics include: discrete probability,recursion, combinatorics, and symbolic logic. This class is a Capstone class.

AP CALCULUS AB - N 02124H05012 & 02124H05022

Credit: 0.5 per semester (1credit per year)
(CU Succeed Credit – Calculus I/MATH 1401 – 4 credits)
Full Year Course
Prerequisite: Honors Pre-Calculus/Trig or Pre-Calculus/Trig Honors,
TEACHER SIGNATURE
Grade: 11, 12
REQUIRED: TI GRAPHING CALCULATOR
Fee associated with this course , AP Exam Fee, and must purchase Calculus textbook

This course follows the College Board's suggested curriculum designed to parallel college-level calculus courses. AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of change problems); and integral calculus (including anti-derivatives, the definite integral and application of integrals). AP Calculus AB

This class is being offered for Dual Enrollment Credit through CU Succeeds. It is the responsibility of the student to check with the college in which they are interested in attending after high school graduation to make sure credit will transfer. **Tuition for this class is the responsibility of the student.** These grades will be transcripted on both the Jeffco and Univ. of Colorado at Denver transcripts.

If a student wishes to transfer Dual Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript.

When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class.

AP CALCULUS BC - N 02125H05012

Credit: 0.5 per semester (1 credit per year)
(CU Succeed Credit – Calculus II/MATH 2411 – 5 credits)
Full Year Course
Prerequisite: Pre-Calculus/Trig Honors or AP Calculus AB, **TEACHER SIGNATURE**
Grade: 11, 12
REQUIRED: TI GRAPHING CALCULATOR & TEXTBOOK
Fee associated with this course, AP Exam Fee, and must purchase Calculus textbook

This course follows the College Board's suggested curriculum designed to parallel college-level calculus courses. AP Calculus BC provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications and also requires additional knowledge of the theoretical tools of calculus. This course assumes a thorough knowledge of elementary functions and covers all of the calculus topics in AP Calculus AB as well as the following topics: vector functions, parametric equations and graphs, polar coordinates and functions, advanced techniques of integration, advanced application of the definite integral, polynomial approximation and series. AP Calculus BC
This class is being offered for Dual Enrollment Credit through CU Succeeds. It is the responsibility of the student to check with the college in which they are interested in attending after high school graduation to make sure credit will transfer. **Tuition for this class is the responsibility of the student.** These grades will be transcripted on both the Jeffco and Univ. of Colorado at Denver transcripts.

If a student wishes to transfer Dual Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript.

When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class.

MULTIVARIATE CALCULUS HONORS - N 02122H05011

Credit: 0.5 per semester (1 credit per year)
(CU Succeed Credit – Calculus III/MATH 2421 – 4 credits)
Full Year Course
Prerequisite: AP Calculus BC, **TEACHER SIGNATURE**
Grade: 11, 12
REQUIRED: TI GRAPHING CALCULATOR & TEXTBOOK
Fee associated with course, AP Exam Fee, and must purchase Calculus textbook

One semester Multivariate Calculus includes the study of hyperbolic functions, improper integrals, directional directives, multiple integration and its applications. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

This class is being offered for Dual Enrollment Credit through CU Succeeds. It is the responsibility of the student to check with the college in which they are interested in attending after high school graduation to make sure credit will transfer. **Tuition for this class is the responsibility of the student.** These grades will be transcripted on both the Jeffco and Univ. of Colorado at Denver transcripts.

If a student wishes to transfer Dual Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript.

When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class.

AP STATISTICS – N 02203H05012 & 02203H05022

Credit: 0.5 (1 credit per year)
Full Year Course
Prerequisite: Inferential Probability and Statistics or Algebra II, **TEACHER SIGNATURE**
Grade: 11, 12
Fee associated with this course
REQUIRED: TI GRAPHING CALCULATOR

This course follows the College Board's suggested curriculum designed to parallel college-level statistics courses. AP Statistics courses introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. AP Statistics

AP COMPUTER SCIENCE PRINCIPLES 10019G05012 & 10019G05022

Credit: 1.0
Full Year Course
Prerequisite: Strong Algebra or Geometry background. Preferably completion of an Engineering course to show basic fluency with a computer.
Grade: 10,11,12
Take both course numbers to complete the yearlong sequence

AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.
For more information, see the College Board websites:
https://apcentral.collegeboard.org/courses/ap-computer-science-principles
OR https://apstudents.collegeboard.org/courses/ap-computer-science-principles

AP COMPUTER SCIENCE A 10157HG05012 & 10157HG05022

Credit: 1.0
Full Year Course
Prerequisite: Completion of Algebra 2 or higher and completion of AP

Computer Science Principles or Teacher Approval.
Grade: 11,12
Take both course numbers to complete the yearlong sequence

AP Computer Science A - AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Students learn the advanced Java programming skills needed in preparation for the AP Computer Science exam. Because the designated outcomes for the AP Computer Science exam change yearly, consult the AP web site for more information.
For more information, see the College Board website:
https://apstudents.collegeboard.org/courses/ap-computer-science-a

MUSIC - INSTRUMENTAL 

Students who wish to participate in Marching Band 1st Semester must be enrolled in Symphonic Band or Wind Ensemble 2nd semester. Students that wish to participate in Wind Ensemble or Symphonic Band 2nd semester must be enrolled in Marching Band or Concert Band 1st semester. See Director for exceptions.

CONCERT BAND 05102G05016
(Concert Band)
Credit: 0.5
1st Semester
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Concert Band is designed to promote students' technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances. This ensemble is intended for students who do not participate in Marching Band. Performances include concerts and contests.

MARCHING BAND 05103G05011
(Lobo Regiment)
Credit: 0.5
1st Semester Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Marching Band is intended to develop students' technique playing brass, woodwind, and percussion instruments and cover appropriate band literature styles, primarily for marching performances. Performances include home football games, regional/state competitions, and local parades.

CONCERT BAND/SYMPHONIC 05102G05046
(Symphonic Band)
Credit: 0.5
2nd Semester Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Symphonic Band is designed to develop intermediate techniques for playing brass, woodwind, and percussion instruments and covers a variety of band literature styles, primarily for concert performances.

CONCERT BAND/WINDS 05102G05066
(Wind Ensemble)
Credit: 0.5
2nd Semester Course
Prerequisite: Director Approval / Audition
Grade: 9,10,11,12
Fee associated with this course

Wind Ensemble is designed to promote more advanced techniques for playing brass, woodwind, and percussion instruments and covers a variety of band literature styles, primarily for concert performances.

ORCHESTRA – STRINGS 05104G05034 & 05104G05044
(Concert Orchestra)
Credit: 0.5
Full Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

String Orchestra is designed to develop students' abilities to play string instruments, covering a variety of string and orchestral literature styles. This is a strings only class. Performances include concerts and contests.

ORCHESTRA ADV 05104E05014 & 05104E05024
(Chamber Orchestra)
Credit: 0.5
Full Year Course
Prerequisite: Approval and Audition Required
Grade: 9,10,11,12
Fee associated with this course

Orchestra Advanced courses are designed to develop students' abilities to play string instruments, covering a variety of string and orchestral literature styles. This is a strings only class. Auditions for Orchestra Advanced occur during the second semester of the previous school year. Performances include concerts, contests, and special events.

MUSIC – VOCAL 

CHORUS - MIXED 05110G05056 & 051105G05066
Credit: 0.5
Full Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

Chorus-Mixed provides the opportunity to sing a variety of choral literature for men's and women's voices and is designed to develop vocal techniques and the ability to sing parts. Concert Choir is a mixed choir (SATB) for students of all ages entering the choral music program at Conifer High School. This class is available to girls and boys coming from middle school, as well as high school students with varied levels of ability. Vocal Techniques, sight reading, intervals, musical skills and general music knowledge will be introduced and practiced on a regular basis. Attendance at all scheduled concerts (usually two a semester), festivals (usually one a semester) and fundraisers is required and students will be held accountable for their participation. Upon completion of the course, students will demonstrate the ability to perform, practice, listen to, analyze, evaluate, and create music with a group and alone. Demonstration of the above skills are refined and monitored daily. No audition is required.

PHYSICAL EDUCATION 

The physical education department makes every effort to keep the program broad and varied in order to meet the needs of as many students as possible, within the limitations of scheduling, facilities, and equipment. The activities offered will provide you the opportunity for individual and group success. The primary value of your physical education experience is physical participation to promote a physically active lifestyle.

NATIONAL STANDARDS: A PHYSICALLY EDUCATED PERSON:

1. Movement Competence and Understanding
2. Physical and Personal Wellness
3. Emotional and Social Wellness
4. Prevention and Risk Management

WEIGHT TRAINING BEG. 08009G05014 & 08009G05024

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9,10,11,12

Weight Training courses help students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning.

WEIGHT TRAINING INTERMEDIATE 08009G05034 & 08009G05044

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9,10,11,12

Intermediate Weight Training helps students go beyond the normal work-out. Students are expected to have completed the basic Weight Training class and can demonstrate knowledge of the basics of resistance training techniques and design an individual weight training program which includes principles of nutrition. **This course is specifically for female weight training if we have enough requests.**

WEIGHT TRAINING ADVANCED 08009E05012 & 08009E05022

Credit: 0.5
Semester Course
Prerequisite: Weight Training Beg.
Grade: 9,10,11,12

Advanced Weight Training uses advanced skills and weight training techniques. Students develop a personalized weight training program which includes principles of nutrition. **Sophomore - Seniors football players are encouraged to sign-up for the 1st Semester. Freshmen - Juniors are encouraged to sign-up for the 2nd Semester.**

TEAM SPORTS ~~08002G05012 & 08002G05022~~ - Offered Again in 2027/28

Credit: 0.5
Semester Course

Prerequisite: None
Grade: 9,10,11,12

Team Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one team sport (such as volleyball, basketball, soccer, and so on).

HEALTH EDUCATION 08051G05011

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9,10,11,12

Health education has two components: classroom learning as well as exercise geared for lifetime fitness. In the classroom, students will apply health skills such as goal setting, advocacy for self and others, and decision making while increasing their knowledge around health behaviors necessary for maintaining a healthy lifestyle. During the exercise component, students will engage in regular physical activity, as well as create and carry out a personalized fitness plan. This course is designed to enhance flexibility, improve strength, and promote mental clarity. The class incorporates elements of yoga, Pilates, strength training, and body balance fitness. The focus is on building a well-rounded foundation for lifelong health and fitness and providing students with the tools to maintain a sustainable and healthy lifestyle.

SCIENCE



At Conifer High School, we recognize the need for everyone to be knowledgeable about and comfortable with science issues that will require decisions as adults in our expanding world. Meeting basic science standards in the integrated 9/10 curriculum is the first step. Future science courses enhance the standards and prepare students for college, vocational training and life.

JEFFERSON COUNTY SCIENCE STANDARDS:

1. Students know that science is a framework for understanding the natural world based on experimentation and logical analysis. Students understand the processes of scientific investigation and are able to design, conduct, communicate about, and evaluate such investigations. Students use their understanding of science in the decision-making process.
2. Students understand that science is a search for patterns in nature, that recognizing these patterns leads to a better understanding of the world around us, and that these patterns link scientific disciplines. 3. Students understand that science and technology can be used to gather and analyze information in order to make decisions in the real world. Students understand connections between scientific and technological history and today's society.
4. Students know and understand the structure, processes and interactions of the Earth's systems and the dynamics of the solar system and the universe.
5. Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.

6. Students will know and understand common properties, forms, interactions, and transformations of matter and energy.

RECOMMENDED PATH	AP PATH	GT PATHWAY –STUDENT TWO YEARS BEYOND THEIR PEERS IN MATH
Introduction to Biotechnology (10,11,12) Intro to Forestry Management* (10,11,12) Wildlife and Fish Management* (10,11,12) **Introduction to Biotechnology (10,11,12)** **Physics (11,12)**	**AP Environmental (10,11,12)** Chemistry Honors (9,10,11,12) **AP Physics 1 (11,12)** **AP Biology (10,11,12)**	**AP Environmental (10,11,12)** **AP Physics 1 (11,12)** **AP Chemistry (11,12)**
Chemistry (10,11,12)	**Chemistry Honors (9,10,11,12)** AP Biology (10,11,12)	**AP Biology (10,11,12)**
Biology (9) Honors Biology (9)	**Biology Honors (9)**	**Chemistry Honors (9,10,11,12)**

*Semester Courses
Note: No paths are exclusive. Students may cross over at any time.

N= NCAA Core Courses

BIOLOGY – N 03051G05012 & 03051G05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
PREREQUISITE: None.
Grade: 9
Fee associated with this course

Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

BIOLOGY HONORS – N 03051H05012 & 03051H05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite**:** None
Grade: 9
Fee associated with this course

Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is

demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

AP BIOLOGY - N 03056H05012 & 03056H05022

Credit: 0.5 per semester (1 credit per year)
(RRCC - BIO 111: General College Biology with Lab)
Full Year Course
Prerequisite: Chemistry or Honors Chemistry – earning an A or B, or co-enrollment in Honors Chemistry
Grade: 10,11,12
Fee associated with this course

Adhering to the curricula recommended by the College Board and designed to parallel college-level introductory biology courses, AP Biology courses emphasize four general concepts: evolution; cellular processes (energy and communication); genetics and information transfer; and interactions of biological systems. For each concept, these courses emphasize the development of scientific inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. AP Biology courses include college-level laboratory investigations.

This class is being offered for free Concurrent Enrollment College Credit through Red Rocks Community College. In order to qualify for Concurrent Enrollment credit, students are expected to complete a post-secondary registration form at their high school. It is the responsibility of the student to check with the college which they are interested in attending, after high school graduation, to verify credit will transfer. These grades will be transcripted on both the Jeffco and Red Rocks Community College transcripts.

If a student wishes to transfer Concurrent Enrollment credit to another college, they must contact the college where they earned credit and request an official transcript.

When students register for this class, the receiving institution will be provided student registration information to verify student's registration in the class.

CHEMISTRY - N 03101G05012 & 03101G05022

Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: Biology
Grade: 10,11,12
Fee associated with this course

Chemistry involves studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

CHEMISTRY HONORS - N 03101H05012 & 03101H05022

Credit: 0.5 per semester (1 credit per year)
Full Year Course

Prerequisite: Earned an A or B in Honors Biology or A in Biology, or Teacher Recommendation
Grade: 9,10,11,12
Fee associated with this course

Chemistry involves studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

AP CHEMISTRY – N 03106H05012 & 03106H05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: Earned an 'A' or 'B; in Honors Chemistry or Chemistry & an 'A' or 'B' in Algebra 2
Grade: 11,12
Fee associated with this course

Following the curricula recommended by the College Board, AP Chemistry courses usually follow high school chemistry and second-year algebra. Concepts covered may include the structure of matter; bonding of intermolecular forces; chemical reactions; kinetics; thermodynamics; and chemical equilibrium. For each concept, these courses emphasize the development of scientific inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. AP Chemistry courses include college-level laboratory investigations.

PHYSICS – N 03151G05012 & 03151G05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: Taken Biology & Chemistry or co-enrollment in Chemistry
Grade: 11,12
Fee associated with this course

Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

AP PHYSICS 1 - N: 03165H05012 & 03165H05022
Credit: 0.5 per semester (1 credit per year)
Full Year Course
Prerequisite: A or B in Algebra 2
Grade: 11,12
Fee associated with this course

AP Physics 1 is a new course offering instead of AP Physics C. AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics

(including rotational motion), work, energy, and power, mechanical waves and sound, and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

Because this course is algebra/trig. based, it will be accessible to more students than the previously offered course, AP Physics C, which was calculus based and faster paced.

AP Physics 1 culminates in a standardized AP exam which could be used for college credit in some post-secondary institutions. It is challenging and rigorous and is taken, primarily, by serious students interested in pursuing science, medicine, nursing, or engineering in college. It can also be taken by any student who wishes to challenge and distinguish themselves and prepare for a university curriculum. It is an excellent college preparatory course!

WILDLIFE AND FISH MANAGEMENT - N 18501G05011

Credit: 0.5
Semester Course
Prerequisite: Successful Completion of Chemistry (or co-enrollment in Chemistry), Biology
Grade: 10,11,12
Fee associated with this course

Wildlife and Fish Management expands student learning to the principles of wildlife management. Students will gain knowledge in career development, leadership, personal development, communications, ecology, biology, zoology and trends in wildlife management in relation to outdoor recreation.

INTRO TO FORESTRY MANAGEMENT - N 18502G5011

Credit: 0.5 per semester
Semester Course
Grade: 10,11,12
Prerequisite: Biology & Chemistry (or co-enrollment in Chemistry)
Fee associated with this course

Intro to Forestry Management expands student learning to the principles of forestry. Students will gain knowledge in career development, leadership, personal development, communications, ecology, biology and temporal forest environments.

AP ENVIRONMENTAL SCIENCE - N 03207H05012 & 03207H05022



Credit: 0.5 per semester (1 credit per year)
Full Year Course
Grade: 10,11,12
Prerequisite: Chemistry or Honors Chemistry, earning an A or B or co-enrollment in Honors Chemistry
Fee associated with this course

AP Environmental Science is designed by the College Board to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems (both natural and human made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems, and the development of practices that will ensure sustainable systems..

INTRODUCTION TO BIOTECHNOLOGY N 14252G05012 & 14252G05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: Chemistry or co-enrollment in Chemistry
Grade: 10,11,12
Fee associated with this course

The Introduction to Biotechnology course introduces students to modern molecular biotechnology concepts and lab techniques. Students gain hands-on authentic lab experience as they learn advanced molecular biology topics including DNA structure and replication, protein synthesis, protein structure and function, and gene expression, regulation and silencing. Other topics covered include genetic engineering and bacterial transformation, medical biotechnology, environmental biotechnology, bioinformatics and DNA sequencing, and biotechnology business. Lab experiences may include following safety procedures in a biological laboratory, sterile techniques, documentation of work in a legal lab notebook, PCR, gel electrophoresis, bacterial transformation and genetic engineering, protein purification, DNA sequencing and bioinformatics and gene silencing. Students will learn to work with important model organisms such as Drosophila, C. elegans, bacteria, yeast, and/or Zebrafish embryos. They also will develop important communication and writing skills related to working in a biological sciences field.
**This course may be applied towards a STEM Endorsed Diploma

HOSA is a student-run organization for health-sciences students with a mission to promote career opportunities in the health-care industry and to enhance the delivery of quality health care to all people. HOSA provides a unique program of leadership development, motivation and recognition for students enrolled in health science education courses or for students who have interests in pursuing careers in health professions.

SOCIAL STUDIES 

It is essential for all students to have a thorough knowledge of the traditions and institutions of the United States and the world. Since we are living in an increasingly interdependent world we need to recognize the importance of an increasingly integrated curriculum. Social Studies will not only target its own standards, but will incorporate those of other disciplines to create real world learning situations. English and Social Studies will coordinate at the junior level to create a World Studies program. Students will be expected to demonstrate reading, writing and effective communications skills. Our goal is to produce graduates who are constructive contributors to their community, their country and ultimately to their world. The Social Studies curriculum is based on content standards in Civics, History, Geography and Economics.

RECOMMENDED PATH	**AP PATH**
Psychology (11,**12**) Economics (11,**12)**	AP Psychology (11,12) Psychology required (10^{th} with approved application and parent signature) AP Macro Economics (11,**12**) AP US Government and Politics (10,11,**12**)
Modern World History (**11**,12)	AP World History (**11**,12)
Modern US History (**10**,11)	AP U.S. History (**10,** 11)
Human Geography (**9**,10,11,12) US Government and Civics (**9**,10)	AP Human Geography* (**9**,10,11,12)

Students must complete Government or AP Government, Geography or AP Human Geography, World History or AP World History, American History or AP US History, and Economics or AP Macroeconomics. *NOTE: Students taking AP Human Geography in 9^{th} grade must still take US Government (semester course) at some time during their 10^{th}, 11^{th}, or 12^{th} grade year.
**The recommended path and AP path are not exclusive. Students may cross over at any time.

N=NCAA Core Courses

HUMAN GEOGRAPHY – N 04001G05011
Credit 0.5
Semester Course
Prerequisite: None
Grade: 9

Human Geography is a semester-long course focused on the relationships among people, places, and environments that result in geographic patterns on the earth and examines the basic concepts and processes that shape human geography. Global and local patterns of population, migration, environmental resources, globalization, as well as cooperation and conflict are surveyed and the factors influencing these patterns are discussed. Students will use geographic tools as well as primary and secondary resources to analyze Earth's human systems and physical features to investigate and evaluate relationships between them.

AP HUMAN GEOGRAPHY – N 04004H05012 & 04004H05022



Credit: 0.5 (1 credit per year)
Offered: Full Year Course
Prerequisite: None
Grade: **9**,10,11,12
Fee:

Following the College Board's suggested curriculum designed to parallel college-level Human Geography courses, AP Human Geography introduces students to the systematic study of patterns and processes that have shaped the ways in which humans understand, use, and alter the earth's surface. Students use spatial concepts and landscape analysis to examine human social organizations and its environmental consequences and also learn about the methods and tools geographers use in their science and practice.

U.S. GOVERNMENT AND CIVICS - N 04151G05011

Credit: 0.5
Semester Course
Prerequisite: None
Grade: 9

U.S. Government and Civics is a semester-long course focused on purposes, roles, and limitations of the structures and functions of government as well as the role of civic participation on behalf of citizens. Students will analyze the role of founding principles and documents as they have and continue to apply to the functioning of U.S. government. Additionally, students will research and formulate positions on local, state, and national issues or policies to participate in a civil society including identifying the appropriate level of government to address specific concerns and exploring the role of individuals in influencing policy such as contacting elected officials, participation in civic organizations, and voting. Following Colorado statute (C.R.S. 22-1-104.a); this course meets the State graduation requirement.

MODERN U.S. HISTORY– N 04103G05012 & 0410351G05022

Credit 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 10,11
Fee associated with this course

Modern U.S. History is a year-long course that provides students with an understanding of key concepts of continuity and change, cause and effect, complexity, unity and diversity, and significant ideas in the United States from Reconstruction to the present. Students will use the historical method of inquiry to formulate compelling questions, evaluate primary and secondary sources, analyze and interpret data, and argue for an interpretation defended by textual evidence. Following Colorado statute (C.R.S. 22-1-104.a); this course will include the history, culture, and social contributions of American minorities.

AP U.S. HISTORY– N 04104H05012 & 04104H05022



Credit 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 10,11
Fee associated with this course

Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History courses provide students with the analytical skills and factual knowledge necessary to address critically problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past.
Dual Credit Option: Credit earned through completion of a full year of AP US History may also be applied to make up US History credits. The circumstance applies to students who enroll in AP World History their sophomore year and AP US History their junior year, or vice versa

MODERN WORLD HISTORY – N 04053G05012 & 04053G05022
Credit 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 11,12

World History is a year-long course that provides students with an understanding of key concepts of continuity and change, cause and effect, complexity, unity and diversity, and significant ideas throughout the world from the Renaissance to the present. Students will use the historical method of inquiry to formulate compelling questions, evaluate primary and secondary sources, analyze and interpret data, and argue for an interpretation defended by textual evidence. Following Colorado statute (C.R.S. 22-1-104.7); this course will include Holocaust and Genocide studies including the Armenian Genocide.

AP WORLD HISTORY – N 04057H05012 & 04057H05022
Credit 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 11,12
Fee associated with this course

Following the College Board's suggested curriculum designed to parallel college-level World History courses, AP World History examines world history from 8000 BCE to the present with the aim of helping students develop a greater understanding of the evolution of global processes and contracts and how different human societies have interacted. This course highlights the nature of continuity and change over time in an international context and explores cause and effect relationships. This course is recommended for students who have received a grade of C or better in previous social studies courses. AP World History.

PSYCHOLOGY N 04254G05011
Credit: 0.5
Semester Course
Prerequisite: none
GRADES: 11,12
Fee associated with this course

Psychology courses introduce students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

AP PSYCHOLOGY N 04254H05022

Credit: 0.5
Semester Course
Prerequisite: Psychology (10th Grade approved with application & parent signature)
GRADES: 11,12
Fee associated with this course

Following the College Board's suggested curriculum designed to parallel a college-level psychology course, AP Psychology courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, expose students to each major subfield within psychology, and enable students to examine the methods that psychologists use in their science and practice.

ECONOMICS N 04201G05011

Credit: 0.5
Semester Course
Prerequisite: None
GRADES: 12

Economics is a semester-long course in which students will receive an overview of economics as well as personal financial literacy. The overview of economics will address principles of both microeconomics and macroeconomics including topics such as economic systems, market structures, government policies, and globalization and international trade. Personal financial literacy will include learning about individual earning capability, personal investment objectives, consumer skills, and financial risk management strategies. Following Colorado statute (C.R.S. 22-32-135); this course will include content relating to how to assess the affordability of and budget for different options for obtaining a postsecondary degree or credential and how to pay for higher education.

AP MACROECONOMICS N 04204H05011

Credit: 0.5
Semester Course
Prerequisite: None
GRADES: 12

Following the College Board's suggested curriculum designed to parallel college-level macroeconomics, AP Macroeconomics courses provide students with a thorough understanding of the principles of economics that apply to an economic system as a whole. They place particular emphasis on the study of national income and price determination and developing students' familiarity with economic performance measures, economic growth, and international economics.

AP US GOVERNMENT AND POLITICS N 04157G05011

Credit: 0.5
Semester Course
Prerequisite: None
GRADES: 10,11,12
Fee associated with this course

Following the College Board's suggested curriculum designed to parallel college-level U.S. Government and Politics courses, this course provides students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. The course generally covers the constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, and civil rights and liberties.

WORLD LANGUAGE



Graduates from Conifer High School will interact with people from all over the world. The ability to communicate with other people is essential to the USA's status as a world leader. Students in a World Language program will not only have the benefit of a second language, but will develop a knowledge of other cultures. These skills and this knowledge are critical to all who live in the 21st century.

WORLD LANGUAGE CONTENT STANDARDS

1. Students comprehend the target language when listening to a variety of sources.
2. Students communicate by speaking the target language for a variety of purposes and audiences.
3. Students comprehend the target language when reading a variety of materials.
4. Students communicate by writing the target language for a variety of purposes and audiences.
5. Students demonstrate knowledge and understanding of cultures that use the target language.

*COLLEGE READINESS PATH SPANISH COURSE PATH	*AP PATH SPANISH COURSE PATH	COLLEGE READINESS PATH FRENCH COURSE PATH
Spanish 1	Spanish 1 Honors	French 1
Spanish 2	Spanish 3 Honors	French 2
Spanish 3 Spanish 3 Honors	Spanish 4 Honors	French 3 Honors
Spanish 4 Honors	AP Spanish	French 4 Honors

****There are two pathways that Spanish students may choose:**

- College Readiness Path is the traditional pathway culminating in Spanish 4 Honors and eligibility for the Seal of Biliteracy.

- AP Path is an accelerated option for students choosing a more rigorous pathway. This pathway culminates in taking the AP exam with an opportunity to earn college credit. AP provides willing and academically prepared students with the opportunity to earn college credit and/or advanced placement.

SPANISH I N 06101G05012 & 06101G05022

Credit 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 9,10,11,12
Fee associated with this course

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

SPANISH II Honors N 06102H05012 & 06102H05022

Credit 0.5 per semester
Full Year Course
Prerequisite: NONE
Grade: 9,10,11,12
Fee associated with this course

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

Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

SPANISH II N 06102G05012 & 06102G05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: Level I
Grade: 9,10,11,12
Fee associated with this course

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

SPANISH III HONORS N 06103H05012 & 06103H05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: Level II (or the equivalent of two levels) and Teacher Signature
Grade: 9,10,11,12
Fee associated with this course

Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. The honors course prepares students for advanced coursework and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated, and higher-level critical and creative thinking skills such as interpretation, problem-solving, investigation, communication, and logic are emphasized throughout the honors course.

SPANISH IV HONORS N 06104H05012 & 06104H05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: Level III (or the equivalent of three levels) and Teacher Signature
Grade: 9,10,11,12

Spanish IV Honors engages students in a highly rigorous curriculum that emphasizes cognitive skills in interpersonal, interpretive, and presentational communication. The honors course aligns with and thoroughly extends the curriculum of Spanish 4; however, added rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments and more complex materials. The honors course prepares students for AP or other types of advanced coursework and engages students in enrichment opportunities. Higher-level critical and creative thinking skills are emphasized throughout the honors course. Students will be expected to speak exclusively in Spanish and will reach an intermediate-mid to intermediate-high proficiency level.

AP SPANISH LANGUAGE & CULTURE N 06112H05012 & 06112H05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: Level III and Teacher Signature
Grade: 9,10,11,12

Designed by the College Board to parallel third-year college-level courses in Spanish language, AP Spanish Language and Culture courses build upon prior knowledge and develop students' ability to express ideas, exchange opinions, and present information in Spanish, both orally and in writing. These courses also help students in understanding and interpreting written and spoken Spanish. In addition, students explore the culture of Spanish-speaking people in historical and contemporary contexts.

Students for AP or other types of advanced coursework engages students in enrichment opportunities. Higher-level critical and creative thinking skills are emphasized throughout the honors course. Students will be expected to speak exclusively in Spanish and will reach an intermediate-mid to intermediate-high proficiency level.

FRENCH I N 06121G05012 & 06121G05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: None
Grade: 9,10,11,12

Designed to introduce students to French language and culture, French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is touched upon as related to vocabulary units. French I focuses primarily on present tense verb communication with topics that introduce: getting to know you, hobbies, family, school, sports, and food.

FRENCH II N 06122G05012 & 06122G05022

Credit: 0.5 per semester
Full Year Course
Prerequisite: Level I or Equivalent of One Level
Grade: 9,10,11,12

Designed to introduce students to the French language and culture, French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is touched upon as related to vocabulary units. French 2 focuses primarily on past tense (PASSE COMPOSE) verb communication with topics that include: clothing, our home, around town, meals/ celebrations, a typical day (routines), and vacation.

FRENCH III - Hon N 06123H05012 & 06123H05022

(RRCC - **FRE 1011: French –5 college credits through RRCC for the year**)
Credit: 0.5 per semester
Full Year Course
Prerequisite: Level II or Equivalent of Two Levels
Grade: 9,10,11,12

French III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. The honors course prepares students for advanced coursework and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher-level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

French 3 focuses on l´imparfait, future and conditional verb tense communication as well as reviewing the ones from levels 1 & 2. It includes themes such as childhood, art, health and wellness, and what´s next?

This class is being offered for free Concurrent Enrollment College Credit through Red Rocks Community College. In order to qualify for Concurrent Enrollment credit, students are expected to complete a post-secondary registration form at their high school. It is the responsibility of the student to check with the college which they are interested in attending, after high school graduation, to verify credit

will transfer. These grades will be transcripted on both the Jeffco and Red Rocks Community College transcripts. Students must receive a C or higher (non-weighted grade) in both semesters to receive college credit.

FRENCH IV - Hon N 06124H05012 & 06124H05022
(RRCC - **FRE 1012: French –5 college credits through RRCC for the year**)
Credit: 0.5 per semester
Full Year Course
Prerequisite: Level III or Equivalent of Three Levels
Grade: 10,11,12

French IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the French language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have 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. The honors course prepares students for AP or other types of advanced coursework and engages students in enrichment opportunities. Higher-level critical and creative thinking skills are emphasized throughout the honors course. Students will be expected to speak exclusively in French and will reach an intermediate-mid to intermediate-high proficiency level.

French 4 focuses primarily on the subjunctive mood and the passé simplé verb tense communication as well as reviewing the ones from levels 1, 2 & 3. It includes themes such as French history, French-speaking Africa, French influence around the world, and an extended novel study.

This class is being offered for free Concurrent Enrollment College Credit through Red Rocks Community College. In order to qualify for Concurrent Enrollment credit, students are expected to complete a post-secondary registration form at their high school. It is the responsibility of the student to check with the college which they are interested in attending, after high school graduation, to verify credit will transfer. These grades will be transcripted on both the Jeffco and Red Rocks Community College transcripts. Students must receive a C or higher (non-weighted grade) in both semesters to receive college credit.

Jeffco Seal of Biliteracy:
What is the Jeffco Seal of Biliteracy?

The Jeffco Seal of Biliteracy is a recognition for students who can demonstrate a high level of proficiency in at least one world language and English by high school graduation.

The State of Colorado adopted the Diploma Endorsement for Biliteracy on March 30, 2017, setting the minimum criteria for districts to develop their own process and criteria. Over the course of 2018, Jeffco used this criteria to develop a seal program for Jeffco students. As a result, the class of 2019 included the first students to earn the Jeffco Seal of Biliteracy.

Jeffco Seal of Biliteracy

What is the Jeffco Seal of Biliteracy?

The Jeffco Seal of Biliteracy is a recognition for students who can demonstrate a high level of proficiency in at least one world language and English by high school graduation. The State of Colorado adopted the Diploma Endorsement for Biliteracy on March 30, 2017, setting the minimum criteria for districts to develop their own process and criteria. The class of 2019 will include the first students to earn the Jeffco Seal of Biliteracy.

Who can earn the Jeffco Seal of Biliteracy?

All students in every Jeffco school are eligible to earn the Seal of Biliteracy.

Why is the Jeffco Seal of Biliteracy important?

The Jeffco Seal of Biliteracy is important because it will

- honor both the achievement of language acquisition and the heritage language, culture and experience students may already possess,
- encourage students to pursue the acquisition of another language or languages, and
- give future employers and post-secondary institutions definitive evidence of their language skills.

What is the process for earning the Jeffco Seal of Biliteracy?

Interested students should contact their school's Seal of Biliteracy team to start the process and develop an action plan for meeting the criteria by high school graduation.

Once criteria are met, each student will be recognized at graduation and their transcript will reflect the languages the student can speak, read, write, and understand.



World Language Criteria

Students must meet the criteria for **one** of the following options listed below:

Option 1 - For school course offerings: A completion of four years of high-school equivalent World Language courses with an unweighted average of 3.0 or higher *for those classes* **and** a demonstration of intermediate-mid oral proficiency.

Option 2 - For languages with a nationally recognized exam: A qualifying test score that includes listening, reading, speaking and writing, and demonstrates intermediate-mid proficiency.

Example: **AP** = ≥ 3, **IB** = ≥ 4

Please contact your school's Seal team for information on other qualifying tests

Option 3 - For languages not assessed by a nationally recognized exam: Submission of a portfolio showing intermediate-mid proficiency in listening, reading, speaking and writing.

Languages Available for Nationally Recognized Exams

Arabic, Chinese, French, German, Hebrew, Hindi, Italian, Japanese, Korean, Latin, Polish, Portuguese, Russian, Spanish, Thai

English Criteria

Students must complete English Language Arts graduation requirements with an average of 3.0 or higher *for those classes* **and one** of the following exams with the minimum score shown:

ACT (English Section)
≥18

AP English Language/Literature and Composition
≥ 3

IB English A, English Literature A, or English A1
≥ 4

SAT (English Section)
≥ 470

JEFFCO PUBLIC SCHOOLS

Colorado High School Diploma Endorsement for Biliteracy

In addition to the Jeffco Seal of Biliteracy, students can earn the Colorado Diploma Endorsement for Biliteracy by achieving all Jeffco criteria without the demonstration of oral proficiency in Option 1.

SPECIAL PROGRAMS



LIBARARY / AVC AIDE
Credit: 0.5 per semester
Semester Course
Prerequisite: Library Manager Approval
Grade: 11,12

Library/AVC Aide courses provide students with the opportunity to work in the library or in media and audiovisual centers. Duties may include collecting, distributing, and categorizing materials; operating audiovisual equipment; assisting students and teachers; and performing clerical duties. Students typically gain experience in library science and/or media and audiovisual technology.

OFFICE AIDE
Credit: 0.5 per semester
Semester Course
Prerequisite: See Counselor – Office Approval
Grade: 11,12

Office Aide courses provide students with the opportunity to work in campus offices, developing skills related to clerical office work. Duties may include typing, filing, record-keeping, receiving visitors, answering the telephone, and duplicating, among others. These courses emphasize appropriate work attitudes, human relations, and proper office procedures.

GUIDANCE AIDE
Credit: 0.5 per semester
Semester Course
Prerequisite: See Counselor – Office Approval
Grade: 11,12

Guidance Aide courses provide students with the opportunity to work in the campus guidance office. Duties may include typing, filing, record-keeping, assisting students, answering the telephone, and duplicating, among others. Students may also act as guides to new students. These courses emphasize appropriate work attitudes, human relations, and proper office procedures.

COMPUTER & INFO SCIENCES AIDE
Credit: 0.5 per semester
Semester Course
Prerequisite: See Counselor – Technology Approval
Grade: 11,12

Computer and Information Sciences—Aide courses offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

OUTDOOR LAB LEADER
Credit: 0.5 per semester
Semester Course
Prerequisite: See Counselor – Counselor Approval & Application
Grade: 11,12

Juniors and seniors who assist elementary schools as High School Leaders at one of the Outdoor Education Laboratory Schools for one week receive one half credit or 110 community service hours for their experience. Students will work with elementary classroom teachers during planning and preparation, must attend several on-site High School Leaders' Training Workshops, and will teach small groups of sixth graders, supervise dormitory/cabin and cafeteria activities, and carry out other duties during the week on site. During the week which students are at Lab School, they are responsible for making up class work missed in other courses. Students will be responsible for communicating with their teachers prior to leaving for Outdoor Lab to collect any future homework. Grading is based on the standards set by the Outdoor Lab Schools and the high school leader's performance will be evaluated by the teacher and principals at Outdoor Lab. Note: Outdoor Lab is considered a 7th class. See counselor for information.

PEER COUNSELING
Credit: 0.5 per semester
Semester Course
Prerequisite: See Counselor – Counselor Approval & Application
Grade: 11,12

This program is designed for students who have a genuine interest in helping their peers via academics, personal/social issues and bringing awareness to the student body around different topics that effect teens.
Peer counselors are students trained in specific counseling skills that include effective communication, problem solving and mediation. Training of the peer counselors occurs in a structured class in the fall semester (dates vary month to month). Students accepted into this program are expected to be extremely good role models at CHS. We provide speakers and discuss issues that are prevalent with teens today to bring understanding, as well as provide the skills necessary to help a peer. Topics may include: drug and alcohol abuse, grief and loss, depression/anxiety, eating disorders, child protective services, dating and dating violence, diversity and a variety of other topics. After training occurs, Peers will be placed in the counseling department during an off hour to serve as a Peer counselor in the spring and the following fall (if requested). Trained peer counselors can also serve fall and spring of their senior year.
In addition, the Peer counselors will develop social programing to bring to the student body, organize and provide birthday bags, send cards or reach out to families in crisis at CHS as well as
other schools, act as ambassadors to new students and assist with prevention programs.
Peer Counselor Training (juniors) credit earned 0.25
Peer Counselor (juniors and seniors) credit earned 0.50
Peer Counselors are chosen in the spring of their sophomore year through an application and interview process.

LEADERSHIP (STUDENT GOVERNMENT) 22101G05012 & 22102G05022
Credit: 1.0
Full Year Course
Prerequisite: See Counselor – Teacher Approval & Application
Grades: 9,10,11,12

Leadership courses are designed to strengthen students' personal and group leadership skills. Typically, intended for students involved in extracurricular activities (especially as officers of organizations or student governing bodies), these courses may cover such topics as public speaking, effective communication, human relations, parliamentary law and procedures, organization and management, and group dynamics.

WORK BASED LEARNING (WBL) OPPORTUNITIES

The Work-based Learning (WBL) experience allows for the application of the Knowledge, Skills, and Abilities that are delivered through the coursework of the Program of Study (POS). Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. 100 hours of internships is equivalent to .5 elective credit. Work-based Learning must follow Board Policy.

Please see your Counselor for additional information.

WORK BASED LEARNING (WBL) – HEALTH SCIENCES 14298G05011

Credit: 0.5 per semester
Full Year Course
Prerequisite: See Counselor – Teacher Approval Grade: 11,12

WORK BASED LEARNING (WBL) – BUSINESS & MARKETING 129998G05011

Credit: 0.5 per semester
Full Year Course
Prerequisite: See Counselor – Teacher Approval Grade: 11,12

WORK BASED LEARNING (WBL) – DIGITAL MEDIA & COMM 11148G05011

Credit: 0.5 per semester
Full Year Course
Prerequisite: See Counselor – Teacher Approval Grade: 11,12

WORK BASED LEARNING (WBL) – ENGINEERING 21048G05011

Credit: 0.5 per semester
Full Year Course
Prerequisite: See Counselor – Teacher Approval Grade: 11,12

ON-THE-JOB EXPERIENCE 22998G05012
Credit: 0.5 per semester
Full Year Course
Prerequisite: See Counselor – Teacher Approval Grade: 11,12

On-the-Job Experience is a semester-long course designed for the student who is already employed or seeking employment in an entry level position. Students enrolled in this course will be expected to maintain continuous employment throughout the duration of the course. Failure to remain employed will result in a withdrawal from the course or failing the course completely. Students can change employers and it is encouraged that the student work with his/her counselor prior to resigning from his/her employer.

Students will be required to submit work logs, schedules, employer evaluations and paycheck stubs to verify the paid work experience. Every student will need to complete a minimum of 100 hours of logged work experience to pass the course and earn a .50 elective credit. For additional information on this course and any additional expectations, please contact your counselor. Students can be employed during the school day or after school hours or a combination depending on the type of work the student is doing. For assistance with employment opportunities, the student or counselor can seek assistance from the Jeffco Career Links Team.

WARREN TECH 

Warren Tech, the technical high school for Jefferson County Schools, is the springboard to a multitude of careers. Students interested in gaining a competitive edge in the job market or in preparing for higher education can enroll in a variety of programs. Eleventh and twelfth grade students are eligible to attend. Students earn both high school credit and college credit in some courses while attending Warren Tech.

How to Apply:

- Talk to your counselor so you can discuss the Warren Tech options and your career plans.
- Talk to your parents and fill out an application.
- Return the application to your counselor who will send it to Warren Tech.
- Warren Tech will notify you by mail when you have been accepted. Students are enrolled at the beginning of each semester.
- Registration information will be sent to you before the start of the semester. Complete the forms and pay Warren Tech fees as outlined in the registration materials.

Times, Credit and Program Information:

See your counselor for specific times that a program is offered. Some courses require special schedule arrangements. Attendance in a Warren Tech program allows students to earn elective credit that counts towards your diploma. A few courses carry academic credit as well as elective credit. See your counselor

WARREN TECH FUTURE READY.

WARREN TECH is Jeffco Public Schools' designated Career and Technical Education (CTE) center and the springboard to a competitive edge in college readiness and career opportunities.

An extension of all Jeffco high schools, students attend Warren Tech Central, North, or South for half the day and their home high schools the other half. Credits earned at Warren Tech count toward graduation from students' home high schools. Sophomores and juniors can apply to attend their junior and/or senior year.

36 hands-on programs.

Free college credit.

Real-world experiences.

AGRICULTURE, NATURAL RESOURCES & ENERGY

- Horticulture

BUSINESS, MARKETING & PUBLIC ADMINISTRATION

- Business Administration

HEALTH SCIENCE, CRIMINAL JUSTICE & PUBLIC SAFETY

- Criminal Justice
- Dental Assisting
- Emergency Medical Services
- Fire Science/First Responder
- Forensic Science
- Medical Assisting
- Introduction to Nursing
- Physical Therapy
- Sports Medicine

HOSPITALITY, HUMAN SERVICES & EDUCATION

- Cosmetology: Esthetics
- Cosmetology: Hairstyling
- Cosmetology: Nail Technology
- Culinary Arts
- Education & Leadership
- Outdoor Leadership
- Resort & Event Management

SKILLED TRADES & TECHNICAL SERVICES

- Aircraft Maintenance Technology
- Automotive Collision Repair
- Automotive Customization
- Automotive Technology
- Aviation Technology
- Building Trades
- Precision Machining Technology
- Welding

STEM, ARTS, DESIGN & INFORMATION TECHNOLOGY

- Advanced 3D Printing Technology
- Audio & Music Production
- Computer Science
- Cybersecurity
- Engineering: Design & Build
- Game Development
- Graphic Design & Illustration
- Live Sound & Event Production
- Video Production

ROUND 1 ENROLLMENT APPLICATION WINDOW CLOSES • JANUARY 13, 2023

APPLY TODAY warrentech.org/apply

Warren Tech Programs / Location

Warren Tech Central

- Automotive Collision Repair
- Automotive Customization
- Automotive Technology
- Building Trades
- Computer Science
- Cosmetology: Esthetics
- Cosmetology: Hairstyling
- Cosmetology: Nail Technology
- Culinary Arts
- Cybersecurity
- Dental Assisting
- Emergency Medical Services
- Engineering: Design & Build
- Executive High School Internship
- Fire Science/First Responder
- Game Development
- Graphic Design & Illustration
- Horticulture
- Outdoor Leadership
- Precision Machining Technology
- Welding

Warren Tech North Campus

- Advanced 3D Printing Technology
- Business Administration
- Criminal Justice
- Education & Leadership
- Forensic Science
- Medical Assisting
- Nurse Aide & Introduction to Healthcare
- Sports Medicine
-

Warren Tech South Campus

- Aircraft Maintenance Technology
- Audio & Music Production
- Aviation Technology
- Live Sound & Event Production
- Physical Therapy
- Resort & Event Management
- Video Production

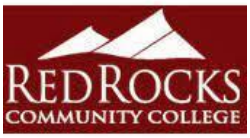
Additional Program Information available with the following links:



[Career & Technical Education - Jeffco Public Schools]
Career & Technical Education



[Course & Exam Pages – AP Central | College Board]
College Board - Advanced Placement Courses



[Courses Available at Your School | Red Rocks Community College (rrcc.edu)]
Red Rocks Community College - Concurrent Enrollment



[CU Succeed | University of Colorado Denver (ucdenver.edu)]
University of Colorado - Dual Enrollment