CAÑON CITY
High School
Cañon City - Colorado

Pathways Handbook
2021 - 2022

CAÑON CITY

HOME OF THE TIGERS

PTECH

SKILLED TRADES | SECURITY | INDUSTRY

STEAM

OPEN PATHWAY

ARTS | HOSPITALITY | EDUCATION

HEALTH

CAÑON CITY HIGH SCHOOL

Dear Students and Parents:

The CCHS Pathways program is a three-year curriculum designed to inject relevance and engagement to learning, and prepare students for postsecondary education and the workforce. Students may earn endorsements in particular disciplines at two graduated levels, Silver and Gold, and earn early college credits toward an Associate's Degree, all while pursuing a high school diploma. Silver endorsements allow a student to explore a career field and even have time to move to another Silver endorsement within a three-year time span. Gold endorsements move a student more thoroughly into a career field and may result in specialized certifications or significant progress toward an Associate's Degree.

Each student at CCHS begins his or her Pathways journey by completing the Freshman Base Camp. The "Camp" provides freshmen a foundation in order to choose which Pathway suits them best.

The Pathways Program at Canon City HS consists of six Pathways:
- o Health
- o Science, Technology, Engineering, Agriculture, and Math (STEAM)
- o Skilled Trades, Security, and Industry
- o Arts, Hospitality, and Education
- o The Tiger Open Pathway (TOP)
- o Pathways in Technology Early College High School (PTECH)

Within these Pathways, students can select from numerous different careers that delve deeper into specific, yet, complementary disciplines.

Pathways students follow a curriculum that includes the following: rigorous academic coursework as well as career-oriented courses, participation in project-based learning activities, and research-oriented community projects, including a graduation Capstone. This academic structure provides students the opportunity to increase the depth and rigor of their education while giving them the freedom and flexibility to select which Pathways they choose to experience. Our curriculum includes a community-based learning internship in each student's chosen career field. We have 100+ community partners offering at least quarter-long internships. Beginning with the class of 2022, every student must complete one or more internships before he or she graduates.

Finally, Pathways purposefully restructures our 1,000-student high school into smaller learning communities and creates viable lanes from high school, to college, to professional careers. The Pathways approach has taken root in an estimated 8,000 high schools across the country. In Colorado, Cañon City HS is one of a few to offer a full spectrum of career options under one roof.

Bill Summers
Principal, Cañon City HS

http://cchs.canoncityschools.org/

School District Fremont RE-1 Cañon City Schools does not discriminate in any of its programs, activities or employment with regard to sex, color, disability, race or national origin.

Complaints may be filed verbally, in writing, or anonymously. If you wish to file a complaint using the district complaint form, please submit to:

Ms. Jamie Davis Title IX, Section 504, and American's with Disabilities Act Coordinator

phone number: (719)276-5703

101 North 14th Street,

Cañon City, Colorado 81212

CAPSTONE SENIOR PROJECT

A Capstone project is a multifaceted graduation requirement for all students that challenges them to think critically, solve challenging problems, and develop life skills. Projects are interdisciplinary, requiring students to apply skills across many different subject areas. These projects encourage students to connect their projects to community issues and to integrate outside-of-school learning experiences including activities such as interviews, scientific observations, and internships. The table below shows the typical requirements and when/where (what course) they can be accomplished within. However, the Capstone is student driven and student managed and **does not** have to follow the typical timeline if a student wishes to complete it earlier in his or her high school experience. The Capstone process is clearly defined at this website:

https://cchs.canoncityschools.org/apps/pages/index.jsp?uREC_ID=1462108&type=d&pREC_ID=1618010

Grade	Capstone Components	CCHS Course Support
9th	Career Exploration and Selection	Freshman English / Capstone Advisory Course
10th	Process (explained & website introduced) Portfolio (creation in Schoology) Proposal (preliminary) Paper (presearch)	Capstone Advisory Course and English 10
11th	Portfolio (ongoing) Proposal (becomes official) Product/Service + Fieldwork	Capstone Advisory Course
12th	Portfolio (ongoing) Product/Service + Fieldwork (complete) Presentation (to a panel for a final grade)	Capstone course & Capstone Advisory Courses

GENERAL REGISTRATION INFORMATION

To be classified as a full-time student, a student must be enrolled for the equivalent of four blocks of instruction (excluding Independent Study). A maximum class load is attained by taking five subjects per quarter. A student may take a sixth class (online or early college) with administrative approval. All freshman, sophomore, and junior students are required to take five classes unless approved by an administrator.

CLASS REGISTRATION

The annual master class schedule is built after students select courses. The number of sections, teaching allocations, and block assignments are made from student registration requests. It is possible that classes may not be offered if too few students register for them.

During the second semester, freshmen students select courses they intend to take for the next three school years. Changes can be made after the first semester each year. Students/guardians should request courses that are in-line with a student's post-secondary plans, using the *Pathways Handbook*. Several courses require an application form to be completed and approved prior to the student being accepted into the course. Students must include at least three full semester alternative courses, or the equivalent, when completing registration. These alternative courses will be used if requested classes are in conflict.

SCHEDULE CHANGE POLICY

Any changes after the master schedule is created undermine the core scheduling process. Withdrawals from courses could jeopardize the offering of any course, especially second semester, which will have a direct impact on the other enrolled students. A "W" (Withdrawal) will be placed on a student's transcript when there is withdrawal from any requested course each quarter the class was scheduled. Students are responsible for ensuring their schedule and/or adjusted schedule meet athletic/extracurricular eligibility requirements. A "W/F" (Withdrawal/Fail) will be placed on a student's transcript if the student drops after the first five school days of class.

Students will receive their next-year's schedule prior to the end of the current-year registration process for an opportunity to make changes by contacting their CCHS counselor. Schedule changes will **not** be made to move a student into a course that pairs him/her with a friend, to select one teacher over another teacher that instructs the same course, or because of the time of day a specific course is taught. Schedule changes are not allowed after the end of the registration process unless necessary due to failure.

HIGH SCHOOL ATHLETIC/ACTIVITIES ELIGIBILITY

Any student who plans to participate in athletics or activities at CCHS must be enrolled in a minimum of 4, .5-credit bearing courses that meet daily, and offer a minimum total of 2 units of credit per quarter. A student who is enrolled in 4, .5-credit courses, and a Teacher's Assistant (TA), and fails a .5-credit class will be passing 1.75 credits, and will be deemed ineligible for the one-week eligibility period. At the close of a semester, a student must have passed at least 3.5 credits in order to retain eligibility, or have passed 2 credits at the end of a quarter during the school year.

COLLEGE ATHLETIC ELIGIBILITY

Any student-athlete who plans to play sports in college at a Division I or Division II school must be registered with the NCAA Clearinghouse. It is recommended that student-athletes register with NCAA during their junior year. Information and registering procedures may be found at www.ncaaclearinghouse.net. Student-athletes are strongly advised not to procrastinate on this process. Doing so may result in athletic ineligibility during their freshman year of college. See your counselor for more information on which CCHS courses meet NCAA eligibility.

Likewise, if a student plans to participate in an NAIA school, the student must register with the NAIA Clearinghouse during their junior year. Information and registering procedures may be found at https://play.mynaia.org.

PATHWAYS TO YOUR FUTURE: ADVANCED COURSE OFFERINGS

CCHS ADVANCED PLACEMENT (AP) COURSES

(All AP courses are also Honors Courses)

NOTE: In order for a student to earn the AP designation on their transcript, he/she must both pass the course and pass the AP test with a score of "2" or higher.

ELA	Natural/ Physical Sciences	Mathematics	Social Studies	Electives
AP Language & Composition	AP Biology	AP Statistics	AP Art History	AP Art & Design
AP Literature & Composition	AP Chemistry	AP Calculus	AP Psychology	AP Capstone
	AP Environmental Science	AP Computer Science Principles	AP European History	
	AP Physics	AP Computer Science A		

CCHS HONORS (H) COURSES

ELA	Natural/Physical Science	Mathematics	Social Studies
(H) English 9	(H) Integrated Science 9	(H) Trigonometry	(H) US History
(H) English 10	(H) Chemistry	(H) Pre-Calculus	(H) Colorado History
(H) Competitive Speech	(H) Zoology	(H) College Statistics	
	(H) River Science I	(H) College Algebra	
	(H) River Science II		
	(H) Systems Go-PAE		
	(H) Systems Go-Rocket Design I		

	(H) Systems Go-Rocket Design II		
	(H) Intro to Biomedical Sciences		
Electives			
(H) Computer Application III (Excel) and/or (Word)	(H) Engineering Design III	(H) Spanish III	(H) Encore (must meet specific requirements - see Choir Director)
(H) Computer Application IV (Excel)	(H) Advanced Engineering Design	(H) Spanish IV	(H) Band (must meet certain requirements - see Band Director)
(H) Digital Graphic Design II	(H) Accounting II	(H) Teacher Cadet I	
(H) Advanced Game Design		(H) Teacher Cadet II	
(H) Journalism/Yearbook			

CONCURRENT ENROLLMENT (CE)

(All Concurrent Enrollment courses are offered through Pueblo Community College)

English	Natural/Physical Sciences	Mathematics	Social Studies
American Literature and Argumentation	(H) Chemistry	Career Math	Psychology
AP Language & Composition	AP Chemistry	Technical Math	AP Psychology
World Literature	Physics	Financial Math	(H) Colorado History
AP Literature & Composition		Math for Liberal Arts	(H) US History
Technical Theatre		(H) College Statistics	Intro to Criminal Justice
Creative Writing		(H) College Algebra	
Drama II			
Drama III			

Analytical Reading & Writing			
CCHS Electives			
Computer Applications II	Child Development	Intro to Auto Tech	Intro to Fire Science
Computer Applications III - Word	Human Growth & Development	Auto Technology I	Precision Machining I
Computer Applications III – Excel	(H) Teacher Cadet I	Auto Technology II	Precision Machining II
Computer Applications IV – Excel	(H) Teacher Cadet II	Auto Internship	Human Nutrition & Health
Business Management and Law	Computer Aided Drafting	Welding 102	Medical Terminology
Computer Information Systems	ADDA I	Welding 103	Certified Nurse Aide Health Care (CNA)
Web Design	ADDA II	Welding 104	Emergency Medical Technician (EMT)
A+ II: Software	(H) Engineering Design III	Welding 106	Carpentry I
Accounting I	(H) Advanced Engineering Design	Welding 250	Carpentry II
(H) Accounting II	Ceramics I/II taken in the same semester	Sign Language I	Early Childhood Education I
AP Art & Design	Advanced Ceramics	Sign Language II	Early Childhood Education II
Film Editing	Advanced Studio Art	Capstone	ProStart I & II

NOTE: CE/AP courses are dependent on the qualified staff available at CCHS during any given school year.

CCHS SUBJECT AREA GRADUATION REQUIREMENTS

Students planning to graduate from Cañon City High School must meet the minimum credit requirements as set by the Cañon City School District.

SUBJECT AREA	CREDIT REQUIREMENTS Class of 2022 and Class of 2023	CREDIT REQUIREMENTS Classes of 2024 and beyond
English Language Arts	5 units of credit	5 units of credit
Mathematics	4 units of credit	4 units of credit
Science	2 units of credit	2 units of credit
Social Studies	3 units of credit	3.5 units of credit
Health/Physical Education	1.5 units of credit	1.5 units of credit
Humanities	2 units of credit	2 units of credit
Career & Technical Education	1.5 units of credit	1.5 units of credit
Capstone	.5 unit of credit	.5 unit of credit
Internship or Work-Study	1.0 unit of credit	1.0 unit of credit
Computer Education	0.5 unit of credit	0.5 unit of credit
Elective	11 units of credit	10.5 units of credit
Total	**32**	**32**

MATH (see CCHS Math Tracks diagram in this handbook): requirements are listed in the following tables (CCS RE-1 Board of Education *Policy IKE-2.*)

ENGLISH LANGUAGE ARTS: requirements are listed in the tables (CCS RE-1 Board of Education Policy IKE-2.)

SCIENCE (classes 2021-2023):
1. One credit in Earth and Sky (Attempted)
2. One credit in Biology or Environmental Science (Attempted)

SCIENCE (classes class 2024 and beyond):
1. One credit in Environmental Science (Attempted)
2. One credit in Biology or Horticulture (Attempted)

NOTE: Students attending a Colorado four-year college/university are required to have three years of natural science--two must be lab courses.

SOCIAL STUDIES (classes 2022 & 2023):

1. One (1.0) credit in Contemporary Studies is required for freshmen
2. One (1.0) credit of U.S. History or Honors U.S. History is required for juniors
3. One (1.0) credit of American Government is required for seniors

SOCIAL STUDIES (classes 2024 and beyond):

1. One-half (.5) credit in Geography as a freshman
2. One (1.0) credit of U.S. History or Honors U.S. History is required for sophomores or juniors
3. One (1.0) credit of American Government is required for juniors or seniors
4. One (1.0) Elective Credit is required

CAÑON CITY SCHOOL DISTRICT APPROVED GRADUATION REQUIREMENTS

All students must accomplish a Capstone in order to graduate unless a student moves into the district after the final day of a student's junior year.

Capstone (Required of all students)	
English	**Math**
Successful completion of District Approved Capstone	Successful completion of District Approved Capstone

*In the case of a student entering the district after **the final day of the student's junior year**, a test score above these levels can be attained in both math and ELA in order for the student to graduate. These students may also voluntarily complete a Capstone in lieu of testing.*

Accuplacer		ACT		Advanced Placement (AP)	
English	**Math**	**English**	**Math**	**English**	**Math**
62	61	18	19	2	2

ASVAB		SAT		ACT Work Keys	
English	**Math**	**English**	**Math**	**English**	**Math**
31	31	470	500	Bronze or higher	Bronze or higher

Concurrent Enrollment	
English	**Math**
"C-" or higher in PCC's English 121	"C-" or higher in any PCC Math Course

ACADEMIC FAILURE AND CREDIT RECOVERY POLICY

Students who fail required graduation classes will not be allowed to take that course again other than at their own expense during credit recovery or Summer School. The course payments must be made prior to graduation. If a student fails to earn the credit within the session, the session cost will not be refunded. Correspondence or online opportunities may be taken with Counselor and Administrative approval.

ACADEMIC IMPROVEMENT COURSE (AIC)

If a student fails a class due to non-compliance or non-productivity within the Work and/or Friday Sessions program, he or she may be placed into the Academic Improvement Course for the remainder of the quarter. This course has two purposes: 1) the student will have time and focused instruction to work on his or her remaining courses so as to improve those grades; and 2) the student will be provided an opportunity to recover the credit for a fee (see Academic Failure and Credit Recovery Policy).

CAÑON CITY SCHOOLS GRADE POINT AVERAGE CALCULATION AND STUDENT STRATIFICATION

The Cañon City School District (CCSD) Board of Education has established the following process to calculate grade point averages (GPAs), and stratification for all students enrolled in the high school.

1. CCHS does not publicly release student rank outside of a *percentage stratification* (top 5%, top 10%, top 25%, and top 50%).
2. Specific numerical rank is available with the following parameters:

Rank is based on GPA, under a 4.0-weighted system. Verified honors and AP courses use a 5.0-point system. The GPA formula and point value for each grade is listed below:

$$GPA = \frac{\text{total of points earned for each grade}}{\text{\# of courses taken}}$$

Regular Course	Honors or AP Course
A = 4.0	A = 5.0
B = 3.0	B = 4.0
C = 2.0	C = 3.0
D = 1.0	D = 2.0
F = 0.0	F = 0.0

● Specific rank is only accessible by the Principal and Counselors
● If exact ranking is REQUIRED, the Counseling Department or Principal can provide "_ of _ ranking" directly to an institution of higher education or scholarship committee upon specific and verified request.
3. Most courses will have a letter grade assigned and be a single contributor to the GPA calculation, including eighth-grade advanced math taken at the high school (includes Algebra I Part II and/or Geometry) and courses taken outside of CCHS (e.g., a college or online course) which must have

prior administrative approval (see counselors for the approval form). *Those courses designated as "Pass" or "Fail" will not contribute to the GPA calculation.*
4. Other considerations:
● Students who transfer to CCHS from another school must attend the entirety of the second semester of their junior year in order to be stratified under the CCHS system.
● Any course that modifies content or grading for students on an Individualized Education Plan (IEP) will not count in the GPA calculation. In order to be stratified, a student must have 80% of his or her 4-year curriculum contained within the non-modified category.

PATHWAY ENDORSEMENTS:

Pathway Endorsement (Silver or Gold):
● Complete all pathway requirements listed in the *Pathways HandBook*

Renaissance Scholar:
● Complete all pathway requirements listed in the *Pathways HandBook* for at least **two** Silver Pathway Endorsements
● Earn a cumulative, weighted GPA of 3.2 or higher

GRADUATING WITH HONORS REQUIREMENTS: CLASS OF 2022 - 2023

All candidates for honors distinction must meet these requirements:

Requirement	Honors	Honors with Distinction	Honors for Excellence in CTE	Honors for Excellence in the Fine Arts
Number of total credits completed	36	38	36	36
Weighted GPA	3.5	3.75	Cumulative GPA of >3.4 and GPA >3.75 in area of concentration	Cumulative GPA of >3.4 and GPA>3.75 in area of concentration
Behavior	Must not have been suspended under a Level 3 or 4 discipline violation (see the *CCHS Student Handbook*), expelled from school, or violated the school's academic integrity standards			

GRADUATING WITH HONORS REQUIREMENTS
CLASS OF 2024 AND BEYOND

All candidates for honors distinction must meet these requirements:

Requirement	Honors	Honors with Distinction	Honors for Excellence in CTE	Honors for Excellence in the Fine Arts
Number of total credits completed	36	38	36	36
Weighted GPA	3.75	4.0	Cumulative GPA of 3.5 or higher and GPA >3.75 in area of concentration	Cumulative GPA of 3.5 or higher and GPA >3.75 in area of concentration
AP/Honors credits completed or specific program requirements	7	10	Meet specific program requirements	Meet specific program requirements
Behavior	Must not have been suspended under a Level 3 or 4 discipline violation (see the *CCHS Student Handbook*), expelled from school, or violated the school's academic integrity standards			

SPECIAL NEEDS STUDENTS

CCHS will develop an Individual Education Plan (IEP) for students identified as having an educational disability. The plan will be formulated through an appropriate legal process in cooperation with parents or legal guardians. The successful completion of this plan will qualify the student for graduation.
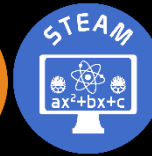
CCHS MATH TRACKS

All CCHS students may select math courses based on the recommendations made in the CCHS Math Tracks diagram on the following page. At no time will a student be locked-in to a path; however, failure of specific math courses will earn a counselor recommendation to take certain courses based on math proficiency and career choice. Track choice information:

● Students may, at any time, switch to a track based on their post-secondary plans

● A student must meet prerequisite requirements before specific course placement

● Course failure in a track will result in Credit Recovery or Summer School to remain on track

CCHS Math Tracks

Post Secondary Plan	Credit 1	Credit 2	Credit 3	Credit 4/5	Additional
AA CTE	Foundations in Algebra (year-long); Algebra I Part I	MAT 107 (3cr.) Career Math; Algebra I Part II	MAT 108 (4cr.) Technical Math	MAT 112 (3cr.) Financial Math	Statistics; AP Computer Science Princ.
AA Humanities	Foundations in Algebra (year-long); Algebra I Part I	Algebra I Part II	MAT 120 (4cr.) Math for the Liberal Arts	MAT 135 (3cr.) (H) College Statistics	Geometry
AA STEM, Business, or 4-Year College	Foundations in Algebra (year-long); Algebra I Part I; Algebra I Part II; Geometry	Algebra I Part II; Geometry; Algebra II	Geometry; Algebra II; (H) Trigonometry	Algebra II; (H) Trigonometry; MAT 121 (4cr.) (H) College Algebra; (H) Pre Calculus; AP Calculus	MAT 135 (3cr.) (H) College Statistics; AP Statistics; AP Computer Science Princ.; AP Comp Science A

Note: Accounting courses do not earn EC *math* credit, but *accounting* credit

Math titles in red may be taken for early college credit

Math titles in gold background are HS exclusive credits

Research indicates that as society and technology rapidly change, 21st century students must be able to collaborate effectively, engage creatively, and apply critical thinking skills to be successful candidates for the jobs of the future. Collaboration, creativity, and critical thinking are at the heart of the Tiger Open Pathway (TOP). Students who are accepted into the TOP program will enjoy a dynamic, flexible learning environment that values their unique interests and abilities, and develops 21st Century skills.

TOP learning is driven by personalization, relevance, and real-world community connections. Within the TOP program, advisors place a strong emphasis on assisting students in the development of personal responsibility and fortitude, social awareness, and intellectual growth. CCHS and TOP staff believe that "learning happens everywhere, and the world is our classroom." In the TOP program, students enjoy diverse, on-site learning experiences at authentic sites outside of the traditional four-wall classroom.

Students in the TOP program have the advantage of blending online curriculum, project based learning, and outdoor and community adventures with CCHS courses and programs. Students map out an individualized educational pathway that highlights their interests, and challenges their strengths, while being supported and guided by their teachers, advisor, and peers.

In traditional high school, a student's progress toward meeting graduation requirements is typically measured by successful completion of a given number of course credits. In the TOP, students demonstrate learning growth and progression toward meeting graduation requirements through the collection of Core Competencies mastery evidence and submission of Personal Progressive Review Portfolios (PPRPs). TOP Core Competencies are demonstrated through completion of graded and ungraded "courses" of study or designed learning experiences. Students within the TOP are not expected to graduate in a specific time, but are expected to remain within the program until sufficient personal, social, and intellectual growth and mastery of Core competencies have been demonstrated through documented evidence and portfolio reviews.

Core Competencies:

A. **Positive Self and Social Awareness and Development**

B. **Passages Program**

C. **Wide Knowledge Requirements (WKR)**

- *Artistic Expression (2X)*
- *Humanities (Cultural Exploration) (3X)*
- *Mathematics as a Lived Experience (2X)*
- *Natural and Life Science (2X)*
- *Additional Math or Science: recommended for college-bound students. (1X each)*
- *US History and American Government*

D. **Embedded and Engaged Critical Thinking and Communication (reading, writing, and speaking) Skills**

E. **Physical Wellness Requirement**

F. **Environmental Stewardship/Community Service**

G. **Community-based Internship or Professional Work Experience**

H. **Expeditionary Learning and On-site Learning Field Trips**

I. **Personal Progress Review Portfolios**

This unique approach to education gives motivated students the advantage of accelerating their learning, as well as increasing their progress toward graduation.

The mission of Cañon City High School's Freshman Base Camp is to help new Tigers transition into The Pride Community where they will be empowered to achieve success academically, socially, and recreationally.

Just like beginning mountain climbers learning to traverse their first Colorado 14er, incoming freshmen at Cañon City High School might need the help of a group of experienced high school students and teachers to fill their backpacks and gather their bearings in the building where they will be spending much of the next four years.

As a freshman, students will be challenged with 10 credits. Freshman Base Camp offers several new and exciting concept programs:

- **Freshman Base Camp offers cohort scheduling for freshmen so they get a chance to learn together and build relationships between same-age peers and teachers to help provide academic and social support while they navigate the road ahead.**
- **Students will be required to take a year-long English class where career skills are incorporated, including time management, organization, public speaking, and research skills.**
- **Students will be required to take two math classes during their freshman year, cementing these skills and preparing them for the new PSAT 9 test.**
- **Students will receive individual counselor-assistance, with both academic and social issues, including coping and stress management techniques.**
- **All freshmen will be assigned to an upper-class Link Crew leader before the school year begins in a 10 to 2 ratio. The Link Crew program is designed to make the transition to high school, academically and socially, easier and more successful. Please ask your student who his or her leader is and encourage maximum participation in all Tiger Pride events!**

Through these programs and relationships, students will embark on their own personal quest and select specific Pathways to help them prepare for whatever college or career path they choose. At the end of their first year, we hope all incoming Tigers will be prepared to continue on to their future, with the eventual goal of reaching the summit-- graduation!

Base Camp Core Requirements

General (All)
- Choices
- Business Applications or Business Applications A

Social Studies (All)
- World Geography

English (choose one)
- Language Arts 9
- English 9
- (H) English 9

Mathematics (choose two)
- Foundations of Algebra
- Algebra I Part I
- Algebra I Part II
- Geometry
- Algebra II

Science (choose either Environmental Science or Honors)
- Environmental Science
- (H) Integrated Science 9

Electives

Humanities
- Foundational Studio Art
- Intermediate Studio Art
- Drawing/Painting
- Ceramics I
- Ceramics II
- Printmaking
- Concert Choir
- Marching Band
- Symphonic Band
- Jazz Band
- Percussion
- Music Appreciation
- Speech
- Drama I
- Drama II
- Technical Theatre 9/10
- Spanish I
- Spanish II

Health, Physical Education, and Recreation
- Weightlifting Q1
- Weightlifting Q2
- Weightlifting Q3
- Weightlifting Q4
- Sports for Life Q1
- Sports for Life Q2
- Sports for Life Q3
- Sports for Life Q4
- Body Works Q1
- Body Works Q2
- Body Works Q3
- Body Works Q4
- Foundations of Crossfit Q1
- Foundations of Crossfit Q2
- Foundations of Crossfit Q3
- Foundations of Crossfit Q4

Career and Technical Education
- Personal Finance
- Culinary Nutrition
- Clothing and Fashion
- Survey - Auto
- Survey - Welding
- Woods I
- Woods II
- Machine Shop
- Welding 102

Army JROTC
- AJROTC I
- AJROTC II
- AJROTC Specials
- AJROTC Marksmanship Q1
- AJROTC Marksmanship Q2
- AJROTC Marksmanship Q3
- AJROTC Marksmanship Q4
  - AJROTC Color Guard/Drill Q1
  - AJROTC Color Guard/Drill Q2
  - AJROTC Color Guard/Drill Q3
  - AJROTC Color Guard/Drill Q4
  - AJROTC Raiders

Arts, Hospitality, & Education Pathway

The **Arts, Hospitality, & Education Pathway** encourages students to express their creativity through a variety of different mediums while exploring career options. The **Arts, Hospitality, & Education Pathway** emphasizes creative problem solving, public performance, cultural enrichment, art appreciation, communication, and critical analysis.

PATHWAYS

The **Visual Art & Design Pathway** gives students an opportunity to experience a wide range of media and concepts to explore ideas and themes for understanding cultural and individual expression. Students will develop a portfolio for a wide variety of career paths post-graduation.

The Hospitality & Tourism Pathway allows students to learn how to explore the beauty, culture, and cuisine of the world around them. Introducing students to management, marketing, and operations of restaurants, lodging, attractions, recreation, and travel service.

The **Education Pathway** prepares students who are interested in a teaching career and working with youth by giving them a variety of real-world experiences. Students will gain the skills needed to pursue an Education degree.

Creative students who see themselves designing, producing, exhibiting, performing, writing, or publishing multimedia content will want to pursue courses in the **Arts, A/V Technology, & Communications Pathway.**

The **Performing Arts Pathway** prepares students for further study in vocal music, instrumental music, and theater.

STUDENT CLUBS

Color Guard	Winter Guard
Speech and Debate Team	National Honor Society
Thespian Troupe 981	International Club
Link Crew Leadership	Art Club
	FBLA

STUDENT ACTIVITIES

Fall Play
Spring Play
School and Community Art Shows
Band and Choir Concerts

Arts, Hospitality, & Education Pathway

Visual Art and Design

The **Visual Art & Design Pathway** encourages students to develop a portfolio while exploring a range of media through art forms such as drawing, ceramics, sculpture, painting, and printmaking within art and design classes.

Silver Level	Gold Level
Foundation Requirements | All 3.0 cr Grades 9-12 € Foundational Studio Art (0.5) € Intermediate Studio Art (0.5) € Ceramics I (0.5) € Ceramics II (0.5) € Drawing/Painting (1.0)	Meet Silver Level requirements, and take additional courses below.
Specialized Requirements | All 3.5 cr Grades 9-12 € Advanced Studio Art (1.0) € Advanced Ceramics (1.0) € Printmaking (0.5) € Digital Graphic Design (1.0) **Supporting Requirements | Pick 2.0 cr** Grades 9-12 € Personal Finance (0.5) € Financial Math (1.0) € Speech or (H) Competitive Speech (1.0) € Culinary Arts (1.0) € Computer Aided Drafting (1.0) € Tiger Paws Marketing & Advertising (1.0) € Intro to Game Design (1.0) € Social Media Marketing (1.0)	**Gold Requirements | 4.0 cr total** Grades 11-12 € AP Art & Design (2.0 required) **Pick 2.0 cr** € AP Art History (2.0) € (H) Digital Graphic Design II (1.0) € Journalism Yearbook (1.0) or (2.0)

Arts, Hospitality, & Education Pathway

Hospitality

The **Hospitality Pathway** will prepare students to work with clients, and problem solve in careers focused on the culinary arts, travel, and event planning.

Silver Level	Gold Level
Foundation Requirements | All 4.0 cr Grades 9-12 € Spanish I (1.0) € Speech or (H) Competitive Speech (1.0) € Colorado History or (H) Colorado History (1.0) € International Relations (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 4.0 cr Grades 9-12 € AP Literature and Composition (1.0) € World History (1.0) € Spanish II (1.0) € Culinary Arts (1.0) € Social Media Marketing (1.0) € Business Management & Law (1.0) € Financial Math (1.0) € Music Technology & Production (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 9-12 € ProStart (1.0) € Digital Graphic Design (1.0) € (H) Spanish IV (1.0) € Computer Applications II (1.0) € Journalism Yearbook (1.0 or 2.0) € AP Statistics (1.0)
Supporting Requirements | Pick 2.0 cr Grades 9-12 € Tiger Paws Marketing & Advertising (1.0) € Accounting I (1.0) € Culinary Nutrition (1.0) € Relationships (1.0) € Economics (1.0) € (H) Spanish III (1.0) € Web Design I (1.0) € Psychology or AP Psychology (1.0) € Statistics or (H) College Statistics (1.0) € Geology (1.0)	

Arts, Hospitality, & Education Pathway

Education

The **Education Pathway** will prepare students to manage classrooms and teach students content in all subject areas.

Silver Level	Gold Level
Foundation Requirements | All 4.0 cr Grades 9-12 € (H) Teacher Cadet I (1.0) € Psychology or AP Psychology (1.0) € Child Development or Human Growth and Development (1.0) € Speech or (H) Competitive Speech (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 4.0 cr Grades 9-12 € 4 classes in content area progression (e.g., math, English Language Arts, music, art etc.) € Early Childhood Education I (1.5) **Supporting Requirements | Pick 2.0 cr** Grades 9-12 € Personal Finance (0.5) € Spanish I / II (1.0 each) € Relationships (1.0) € Computer Applications II (1.0) € Music Technology & Production (1.0) € Podcasting (1.0) € Graduate Life Skills (1.0)	**Gold Requirements | All 4.0 cr** Grades 10-12 € 2 elective credits in content area progression (2.0) € (H) Teacher Cadet II (1.0) **OR** € Early Childhood Education II (1.0) € Spanish III (1.0) € Computer Information Systems (1.0)

Arts, Hospitality, & Education Pathway

A/V Technology and Communication

The **A/V Technology and Communication Pathway** will prepare students to apply artistic talent to practical problems and learn visual arts principles that prepare you with skills and techniques to work in any number of creative design and entertainment fields.

Silver Level	Gold Level
Foundation Requirements | All 4.0 cr Grades 9-12 € Video Production I (1.0) € Technical Theatre (1.0) € Web Design I (1.0) € Speech or (H) Competitive Speech (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 4.0 cr Grades 9-12 € Digital Graphic Design (1.0) € Broadcasting (1.0) € AP Computer Science Principles (1.0) € Social Media Marketing (1.0) € Intro to Game Design (1.0) € Music Technology & Production (1.0) € Podcasting (1.0) € Film Editing (1.0)	**Gold Requirements | Pick 3.0 cr** Grades 9-12 € (H) Advanced Game Design (1.0) € (H) Digital Graphic Design II (1.0) € Additional courses listed under Silver Level Specialized Requirements € Additional courses listed under Silver Level Supporting Requirements
Supporting Requirements | Pick 2.0 cr Grades 9-12 € Drawing/Painting (1.0) € Drama I, II, III (1.0 each) € Journalism Yearbook (1.0 or 2.0) € AP Computer Science A (1.0) € Networking I: Networking Fundamentals I (1.0)	

Performing Arts: Vocal Music

The **Performing Arts Pathway**, with an emphasis in Vocal Music, is for students who are interested in a career in the vocal arts as well as for those students who simply want to expand and/or develop their artistic talent in pursuit of a well-rounded education.

Silver Level	Gold Level
Foundation Requirements | All 5.0 cr Grades 9-12 € Concert Choir (1.0) Grades 10-12 € Tiger Ladies (2.0) € Encore (2.0)	Meet Silver Level requirements, and take additional courses.
Specialized / Supporting Requirements | Pick 4.0 credits Grades 9-12 € Music Theory Fundamentals - Part A (0.5) € Music Theory Fundamentals - Part B (0.5) € Vocal Music Performance (0.5) € Speech or (H) Competitive Speech (1.0) € Video Production I (1.0) € AP Art History (2.0) € Any Instrumental Music Course (1.0) € Any Drama Course (1.0) € Jazz Band (1.0) € Participation in two Main Stage Musical Theater Productions (1.0 credit equivalent) € Music Appreciation (1.0) € Social Media Marketing (1.0) € Web Design (1.0) € Music Technology & Production (1.0)	**Gold Requirements | All 4.5 cr** Grades 10-12 € Complete 4.0 additional courses listed under Silver Level Specialized/Supporting Requirements (4.0) € Music Theory Fundamentals - Part A (0.5)

Arts, Hospitality, & Education Pathway

Performing Arts: Instrumental Music

The **Performing Arts Pathway**, with an emphasis in Instrumental Music, is for students who are interested in a career in music as well as for those students who simply want to expand and/or develop their artistic talent in pursuit of a well-rounded education.

Silver Level	Gold Level
Foundation Requirements | All 5.0 cr Grades 9-12 € Band (2.0) (repeatable) € Percussion (1.0) (repeatable)	Meet Silver Level requirements, and take additional courses.
Specialized / Supporting Requirements | Pick 4.0 cr Grades 9-12 € Music Theory Fundamentals - Part A (0.5) € Music Theory Fundamentals - Part B (0.5) € Vocal Music Performance (0.5) € Speech or (H) Competitive Speech (1.0) € Video Production I (1.0) € AP Art History (2.0) € Any Instrumental Music Course (1.0) € Any Drama Course (1.0) € Jazz Band (1.0) € Participation in two Main Stage Musical Theater Productions (1.0 credit equivalent) € Music Appreciation (1.0) € Social Media Marketing (1.0) € Web Design (1.0) € Music Technology & Production (1.0)	Gold Requirements | All 4.5 cr Grades 10-12 € Complete 4.0 additional courses listed under Silver Level Specialized/Supporting Requirements (4.0) € Music Theory Fundamentals - Part A (0.5)

Arts, Hospitality, & Education Pathway

Performing Arts: Dramatic Arts

The **Performing Arts Pathway**, with an emphasis in Dramatic Arts, is for students who are interested in pursuing a career in theatre and film as well as students who want to expand and/or develop their artistic talent in pursuit of a well-rounded education.

Silver Level	Gold Level
Foundation Requirements | All 4.0 cr Grades 9-12 € Drama I (1.0) € Drama II (1.0) € (H) Drama III (1.0) € Technical Theatre (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized / Supporting Requirements | Pick 5.0 cr Grades 9-12 € Speech or (H) Competitive Speech (1.0) € Music Theory Fundamentals - Part A (0.5) € Music Theory Fundamentals - Part B (0.5) € Vocal Music Performance (0.5) € Video Production I (1.0) € AP Art History (2.0) € Any Instrumental Music Course (1.0) € Jazz Band (1.0) € Participation in two Main Stage Productions (1.0 credit equivalent) € Social Media Marketing (1.0) € Web Design (1.0) € Music Technology & Production (1.0) € Podcasting (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 10-12 € Complete any additional courses listed under Silver Level Specialized/Supporting Requirements (as listed) (4.0) € Broadcasting (1.0) € Film Editing (1.0) € Two Main Stage Productions (1.0 credit equivalent) (Ex: two One Act Plays or Christmas Productions = One Main Stage)

Health Pathway

The **Health Pathways** offer students a thorough education in a high-demand field that has no foreseeable downward trend in human interaction. Whether your desire is to join a career locally or internationally, health care is needed across the spectrum of geography. Further, with advancing technology, health care will change over the coming decade to become both exciting and extremely rewarding as improving people's lives is its primary focus.

The **Health Pathways** includes coursework in world languages, business, technology, and sociology. This Pathway emphasizes health science, cultural literacy, business fundamentals, customer service, interpersonal skills, employability, ethics, and leadership.

PATHWAYS

The **Health Science Pathway** helps students develop an understanding of the human body, nutrition, wellness, and medicine. It further allows students who wish to enter the medical career field to experience patient care through the Certified Nurse's Assistant (CNA) and Emergency Medical Technician (EMT) programs.

Exercise Pathway helps students develop an understanding of the human body, nutrition, wellness, and medicine.

Mental Health Pathway helps students develop an understanding of wellness, nutrition, and medicine in regards to mental health.

STUDENT CLUBS

National Honor Society
FBLA
International Club
Link Crew Leadership

STUDENT ACTIVITIES / CLUBS

Speech and Debate
Mountain Biking Club
Fly Fishing Club
AJROTC Raiders
Athletics

Health Pathway

Health Science

The **Health Science and Exercise Pathway** helps students develop an understanding of the human body, nutrition, wellness, and medicine. It allows students who wish to enter the medical career field to experience patient care via the Certified Nurse's Assistant (CNA) and Emergency Medical Technician (EMT) program.

Silver Level	Gold Level
**Foundation Requirements	All 3 cr** Grades 9-12 € Analytical Reading & Writing (1.0) € (H) Zoology (1.0) € Chemistry (1.0)	Meet Silver Level requirements, and take additional courses.
**Specialized Requirements	Pick 3.0 cr** Grades 9-12 € Statistics (1.0) € (H) Chemistry (1.0) € Culinary Nutrition (1.0) € Medical Terminology (.5) € Speech or (H) Competitive Speech (1.0) € Computer Applications II (1.0)	**Gold Requirements	Pick 4.0 cr** Grades 9-12 € Certified Nurse Aide (1.0) € AP Chemistry (2.0) € AP Biology (2.0) € (H) College Statistics or AP Statistics (1.0) € Speech or (H) Competitive Speech (1.0) € Human Nutrition and Health (.5) € (H) Computer Applications IV (1.0) € (H) Accounting II (1.0) € Emergency Medical Technician (EMT) (4.0)
**Supporting Requirements	Pick 2.0 cr** Grades 10-12 € Child Development or Human Growth and Development (1.0) € Relationships (1.0) € Psychology or AP Psychology (1.0) € Physics or AP Physics (1.0) € Networking +; Networking Fundamentals I (1.0) € (H) Computer Applications III (1.0) € Computer Information Systems (1.0) € Business Management & Law (1.0) € Accounting I (1.0) € (H) Principles of Biomedical Sciences (1.0)	

Health Pathway

Exercise

The **Exercise Pathway** helps students develop an understanding of the human body, nutrition, wellness, and medicine.

Silver Level	Gold Level
Foundation Requirements | All 4.0 cr Grades 9-12 € Analytical Reading & Writing (1.0) € (H) Zoology (1.0) € Sports for Life, Weightlifting, Body Works, or CrossFit (2.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | All 2.5 cr Grades 9-12 € Chemistry or (H) Chemistry (1.0) € Human Nutrition and Health (.5) € Speech or (H) Competitive Speech (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 9-12 € AP Chemistry (2.0) € AP Biology (2.0) € Culinary Nutrition (1.0) € Six P.E. credits, three of the four classes offered must be taken and passed with an A and in good standing with the teacher (3.0) € Medical Terminology (.5)
Supporting Requirements | Pick 2.0 cr Grades 10-12 € Relationships (1.0) € Psychology or AP Psychology (1.0) € (AP) Environmental Science (2.0) € (H) Physics or Physics (1.0) € Networking +; Networking Fundamentals I (1.0) € (H) Principles of Biomedical Sciences (1.0)	

Mental Health

The **Mental Health Pathway** helps students develop an understanding of wellness, nutrition, and medicine in regards to mental health.

Silver Level	Gold Level
Foundation Requirements | All 5.0 cr Grades 9-12 € Statistics, (H) College Statistics or AP Statistics (1.0) € Relationships (1.0) € Child Development (1.0) or Human Growth and Development (1.0) € Psychology or AP Psychology (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 3.0 cr Grades 9-12 € Chemistry or (H) Chemistry (1.0) € Human Nutrition and Health (.5) € Medical Terminology (.5) € Speech or (H) Competitive Speech (1.0) € (H) Zoology (1.0) € Analytical Reading and Writing (1.0) € Computer Applications II (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 9-12 € AP Psychology (1.0) € (H) Zoology (1.0) € AP Chemistry (2.0) € AP Biology (2.0) € (H) Computer Applications IV (1.0) € (H) Accounting II (1.0)
Supporting Requirements | Pick 2.0 cr Grades 10-12 € AP Environmental Science (2.0) € (H) Computer Applications III (1.0) € Computer Information Systems (1.0) € Business Management & Law (1.0) € Accounting I (1.0) € (H) Principles of Biomedical Sciences (1.0)	

Skilled Trades, Security & Industry Pathway

Skilled Trades careers are for highly motivated individuals that have a desire to work with their hands and receive an industry standard education. CCHS offers training in the high-demand fields of Security (Criminal Justice and Fire Sciences), Carpentry, Precision Machining, Automotive, and Welding. With the training provided in one or more of these areas, dedicated students will acquire the necessary skills and workmanship to obtain entry level employment at the culmination of the program, if not sooner.

Successful individuals demonstrate the following: A strong work ethic A willingness to learn proper procedures Acceptance of constructive criticism An openness to attempting new activities	Problem solving abilities Quality control Critical thinking skills Pride in a job well done Ability to work as a team

PATHWAYS

The **Automotive Pathway**, in conjunction with Pueblo Community College, trains students to understand and diagnose automotive systems, and prepare them for a successful career in the automotive repair industry. Students can expect to experience real world situations in our state of the art automotive lab. Students will earn multiple certificates and certifications from leading industry partners like Subaru, ASE, TIA, Gates, Ford ASE, S/P2, and many others.

The **Carpentry Pathway**, in conjunction with the Cañon City Home BI-ED, is a self-funded, non-profit entity, and it provides students the opportunity to experience real world training as a typical project involves the construction of a home from the ground up. Students can expect to work hands on at a real job site using the tools of the trade as well as gain experience in cabinetry and fine woodworking.

The **Precision Machining Pathway** teaches students how to operate a variety of machines found in industry to create exacting parts to specifications out of a variety of materials. Students can expect to complete several required projects utilizing milling, turning, and CNC machining equipment.

The **Welding Pathway**, in conjunction with Pueblo Community College, prepares students for a career in welding and manufacturing settings, small job shops, city and government welding centers, and related sites. They may also work as a self-employed welder. Students can expect to learn the fundamentals that pertain to the OFC (Oxy Fuel Cutting), PCT (Plasma Cutting Torch) processes, and SMAW (Shielded Metal Arc Welding) process.

The **Security Pathway**, in conjunction with Pueblo Community College, prepares students for a career in the military, criminal justice, or fire sciences. CCHS offers fully accredited college courses, propelling students into the career fields immediately following high school, or when they reach a required age.

STUDENT CLUBS   STUDENT ACTIVITIES

Auto Club
Skills USA Welding Club
Link Crew Leadership

Skilled Trades, Security & Industry Pathway

Automotive

The **Automotive Pathway**, in conjunction with Pueblo Community College, trains students to understand and diagnose automotive systems, and prepare them for a successful career in the automotive repair industry. Students can expect to experience real world situations in our state of the art automotive lab. Students will earn multiple certificates and certifications from leading industry partners like Subaru, ASE, TIA, Gates, Ford ASE, S/P2, and many others.

Silver Level	Gold Level
Foundation Requirements | All 2.5 cr Grades 10-12 € Intro to Auto (.5) € Auto I (2.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 2.0 cr Grades 10-12 € Computer Aided Drafting (1.0) € A+ I - Hardware (1.0) € A+ II - Software (1.0)	**Gold Requirements | All 3.0 cr** Grades 9-12 € Auto II (2.0) includes Auto Internship (1.0)
Supporting Requirements | Pick 3.5 cr Grades 9-12 € Accounting I (1.0) € Speech or (H) Competitive Speech (1.0) € Analytical Reading & Writing (1.0) € Spanish I, II, (H) III, (H) IV (1.0 each) € Welding 102 (1.0) € Woods I (0.5) € Machine Shop (0.5) € Business Management & Law (1.0) € Network +; Networking Fundamentals I (1.0) € Network +; Networking Fundamentals II (1.0) € Social Media Marketing (1.0) € Web Design (1.0)	

Carpentry

The **Carpentry Pathway**, in conjunction with the Cañon City Home BI-ED, is a self-funded, non-profit entity, and it provides students the opportunity to experience real world training as a typical project involves the construction of a home from the ground up. Students can expect to work hands on at a real job site using the tools of the trade as well as gain experience in cabinetry and fine woodworking.

Silver Level	Gold Level
Foundation Requirements | All 3.5 cr Grades 9-12 € Woods 1 (0.5) € Spanish I (1.0) € Carpentry I (2.0)	Meet Silver Level requirements, and take additional courses. Carpentry II is required for gold level endorsement.
Specialized Requirements | Pick 3.0 cr Grades 9-12 € Woods II (0.5) € Carpentry II (2.0) € Computer Aided Drafting (1.0) **Supporting Requirements | Pick 1.0 cr** Grades 9-12 € Accounting I (1.0) € Speech or (H) Competitive Speech (1.0) € Spanish II, (H) III, (H) IV (1.0 each) € Welding 102 (1.0) € Intro to Auto (0.5) € Machine Shop (0.5) € Business Management & Law (1.0) € Intro to Project Management (1.0)	**Gold Requirements | Pick 4 cr** Grades 9-12 € Carpentry II (2.0) € Analytical Reading and Writing (1.0) € Machine Shop (0.5) € Personal Finance (0.5) or Accounting I (1.0)

Precision Machining

The **Precision Machining Pathway** teaches students how to operate a variety of machines found in industry to create exacting parts to specifications out of a variety of materials. Students can expect to complete several required projects utilizing milling, turning, and CNC machining equipment.

Silver Level	Gold Level
Foundation Requirements | All 1.5 cr Grades 9-12 € Machine Shop (.5) € Precision Machining I (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | All 2.0 cr Grades 9-12 € Precision Machining II (1.0) € Computer Aided Drafting or Engineering Design I (1.0)	**Gold Requirements | All 3.5 cr** Grades 9-12 € Precision Machining II (1.0) € Welding 103 (1.0) € Analytical Reading & Writing (1.0) € Intro to Auto (0.5)
Supporting Requirements | Pick 3.0 cr Grades 9-12 € Personal Finance (0.5) € Speech or (H) Competitive Speech (1.0) € Accounting I (1.0) € Woods I (0.5) € Social Media Marketing (1.0) € Welding 102 (1.0) € Web Design I (1.0) € Digital Graphic Design (1.0) € Business Management and Law (1.0) € Engineering Design II (1.0)	

Welding

The **Welding Pathway**, in conjunction with Pueblo Community College, prepares students for a career in welding and manufacturing settings, small job shops, city and government welding centers, and related sites. They may also work as a self-employed welder. Students can expect to learn the fundamentals that pertain to the OFC (Oxy Fuel Cutting), PCT (Plasma Cutting Torch) processes, and SMAW (Shielded Metal Arc Welding) process.

Silver Level	Gold Level
Foundation Requirements | All 2.0 cr Grades 9-12 € Welding 102 (1.0) € Welding 103 (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | All 4.0 cr Grades 9-12 € Welding 104 (1.0) € Welding 106 (1.0) € Welding 250 (1.0) € Computer Aided Drafting (1.0)	**Gold Requirements | All 3.0 cr** Grades 9-12 € Welding 250 (1.0) € Machine Shop (0.5) € Analytical Reading & Writing (1.0) € Intro to Auto (0.5)
Supporting Requirements | Pick 2.0 cr Grades 9-12 € Business Management & Law (1.0) € Accounting I (1.0) € Woods I (0.5) € Web Design (1.0) € Digital Graphic Design (1.0)	

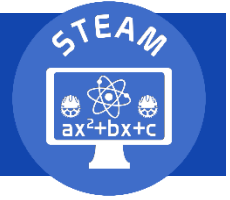# Skilled Trades, Security & Industry Pathway

Security

The **Security Pathway**, in conjunction with Pueblo Community College, prepares students for a career in the military, criminal justice, or fire sciences. CCHS offers fully accredited college courses, propelling students into the career fields immediately following high school, or when they reach the required age.

Silver Level	Gold Level
Foundation Requirements | All 2.0 cr Grades 9-12 € Spanish I (1.0) € AJROTC I (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 3.0 cr Grades 9-12 € Criminal Justice (1.0) € Fire Science (1.0) € AJROTC II - VIII (1.0 each)	**Gold Requirements | All 4.0 cr** Grades 10-12 € Analytical Reading & Writing (1.0) € Computer Information Systems (1.0) € Computer Applications II (1.0) € (H) Spanish III (1.0) **OR** € Emergency Medical Technician (EMT) (4.0)
Supporting Requirements | Pick 3.0 cr Grades 9-12 € Spanish II (1.0) € Speech or (H) Competitive Speech (1.0) € Accounting I (1.0) € Psychology or AP Psychology (1.0) € Intro to Auto (0.5) € Web Design (1.0) € Raiders (0.5) € Color Guard / Drill Team (0.5) € Marksmanship (0.5)	

STEAM – Science, Technology, Engineering, Agriculture & Math Pathway

The **Science, Technology Engineering, Agriculture, & Math Pathway** is designed for students with a passion for applying math and science concepts to solve problems, enhance understandings, and create innovative systems that explore and affect our ever-changing and demanding world. Class work emphasizes inquiry-based problem solving, analytical thinking skills, and computer applications.

PATHWAYS

The **Science Pathway** prepares students for a future in the pervasive and profitable science discipline. Students interested in science can choose courses that implement the scientific method across the spectrum of natural and physical sciences.

The **Technology Pathway** prepares students for a future in the pervasive and profitable tech industry. Students interested in technology can choose courses that implement flexible tech principles and applications.
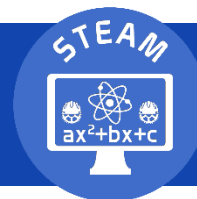
The **Engineering Pathway** prepares students for a future in the pervasive and profitable engineering industry. Students interested in engineering can choose courses that implement industry-standard principles.

The **Agriculture Pathway** prepares students to engage in the fast-growing agricultural industry using the three main components: a strong curriculum, community partnerships, and structured agricultural experiences.

The **Math Pathway** prepares students for a future in mathematical career fields. Students interested in math can choose courses that implement a deep understanding of numerical principles.

STUDENT CLUBS

Environmental Club
National Honor Society
Link Crew Leadership

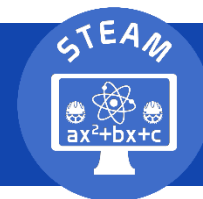# STEAM – Science, Technology, Engineering, Agriculture & Math Pathway

STEAM - Agriculture

The **Agriculture Pathway** prepares students to engage in the fast-growing agricultural industry using the three main components: a strong curriculum, community partnerships, and structured agricultural experiences.

Silver Level	Gold Level
Foundation Requirements | All 3.5 cr Grades 9-12 € Analytical Reading & Writing (1.0) € Personal Finance (0.5) € Environmental Science (1.0) € Horticulture (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 3.0 cr Grades 9-12 € Accounting I (1.0) € Geology (1.0) € Tiger Paws Marketing & Advertising (1.0) € Computer Applications II (1.0) € Economics (1.0) € Speech or (H) Competitive Speech (1.0) € Spanish I (1.0) € AP Environmental Science (2.0) € (H) Zoology (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 10-12 € Statistics, (H) College Statistics, or AP Statistics (1.0) € AP Chemistry (2.0) € AP Biology (2.0) € (H) Zoology (1.0) € (H) Accounting II (1.0) € (H) River Science II (1.0)
Supporting Requirements | Pick 2.0 cr Grades 9-12 € Chemistry or (H) Chemistry (1.0) € Physics or AP Physics (1.0) € Woods I, Machine Shop (0.5 each) € Welding 102 (1.0) € (H) River Science I € AP Computer Science Principles (1.0) € Spanish II (1.0)	

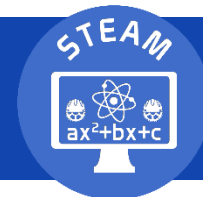# STEAM – Science, Technology, Engineering, Agriculture & Math Pathway

STEAM: Science

The **Science Pathway** prepares students for a future in the pervasive and profitable science discipline. Students interested in science can choose courses that implement the scientific method across the spectrum of natural and physical sciences.

Silver Level	Gold Level
Foundation Requirements | All 3.0 cr Grades 10-12 € Analytical Reading & Writing (1.0) € Computer Applications II (1.0) € (H) Chemistry (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 3.0 cr Grades 9-12 € AP Environmental Science (2.0) € Geology (1.0) € (H) Zoology (1.0) € Psychology or AP Psychology (1.0) € Speech or (H) Competitive Speech (1.0) € Spanish I (1.0) € Horticulture (1.0) € (H) Computer Applications III (1.0) € (H) River Science I € Principles of Biomedical Science (2.0) **Supporting Requirements | Pick 2.0 cr** Grades 9-12 € Computer Aided Drafting (1.0) € Engineering Design I, II or III (1.0 each) € Woods, Machine Shop, or Intro to Auto (0.5 each) € Economics (1.0) € Welding 102 (1.0) € (H) Systems Go: Rocket Design I (1.0) € (H) Systems Go: Rocket Design II (1.0) € Computer Information Systems (1.0) € Spanish II (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 10-12 € Statistics, (H) College Statistics or AP Statistics (1.0) € AP Chemistry (2.0) € AP Computer Science Principles (1.0) € AP Computer Science A (1.0) € AP Physics (2.0) € AP Biology (2.0) € (H) Computer Applications IV (1.0) € (H) Systems Go: Rocket Design I (1.0) € (H) Systems Go: Rocket Design II (1.0) € (H) River Science II (1.0)

STEAM – Science, Technology, Engineering, Agriculture & Math Pathway

STEAM: Technology

The **Technology Pathway** prepares students for a future in the pervasive and profitable tech industry. Students interested in technology can choose courses that implement flexible tech principles and applications.

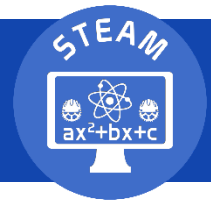| Silver Level	Gold Level
Foundation Requirements | All 4.0 cr Grades 10-12 € Analytical Reading & Writing (1.0) € Computer Applications II (1.0) € Computer Information Systems (1.0) € Intro to Game Design (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 3.0 cr Grades 9-12 € Digital Graphic Design (1.0) € AP Computer Science Principles (1.0) € Speech or (H) Competitive Speech (1.0) € Spanish I (1.0) € Web Design I (1.0) € A+ I - Hardware (1.0) € A+ II - Software (1.0) € Business Management and Law (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 10-12 € Statistics, (H) College Statistics or AP Statistics (1.0) € (H) Computer Applications IV (1.0) € AP Computer Science A (1.0) € Tiger Paws Marketing & Advertising (1.0) € (H) Advanced Game Design (1.0) € (H) Systems Go: Rocket Design I (1.0) € (H) Systems Go: Rocket Design II (1.0) € A+ Computer Repair € Film Editing
Supporting Requirements | Pick 2.0 cr Grades 9-12 € Computer Aided Drafting or Engineering Design I (1.0) € Welding 102 (1.0) € Woods, Machine Shop, or Intro to Auto (0.5) € Economics (1.0) € Networking +; Network Fundamentals I (1.0) € Network +; Networking Fundamentals II (1.0) € Social Media Marketing (1.0) € (H) Computer Applications III (Word/Excel) (0.5 each) € (H) Systems Go: Rocket Design I (1.0) € (H) Systems Go: Rocket Design II (1.0) € (H) Digital Graphic Design II (1.0)	

STEAM – Science, Technology, Engineering, Agriculture & Math Pathway

STEAM: Engineering

The **Engineering Pathway** prepares students for a future in the pervasive and profitable engineering industry. Students interested in engineering can choose courses that implement industry-standard principles.

Silver Level	Gold Level
Foundation Requirements | All 3.0 cr Grades 10-12 € Analytical Reading & Writing (1.0) € Algebra II (1.0) € Computer Applications II (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 3.0 cr Grades 10-12 € Web Design I (1.0) € Digital Graphic Design (1.0) € Engineering Design I & II (1.0 each) € (H) Chemistry (1.0) € AP Computer Science Principles (1.0) € Intro Game Design (1.0) **NOTE: Students must complete the CCHS Math Track through Trigonometry**	**Gold Requirements | Pick 4.0 cr** Grades 10-12 € AP Physics (2.0) € AP Computer Science A (1.0) € (H) Engineering Design III (1.0) € (H) Advanced Engineering Design (1.0) € AP Chemistry (2.0) € (H) Computer Applications IV (1.0) € AP Calculus (2.0) € (H) Advanced Game Design (1.0) € (H) Systems Go: Rocket Design I (1.0) € (H) Systems Go: Rocket Design II (1.0) NOTE: Students must complete the CCHS Math Track through (H) Pre-Calculus
Supporting Requirements | Pick 2.0 cr Grades 9-12 € Geology (1.0) € Statistics, (H) College Statistics or AP Statistics (1.0 each) € Woods I or Intro to Auto (0.5 each) € Welding 102 (1.0) € Economics (1.0) € (H) Digital Graphic Design II (1.0) € (H) Computer Applications III (1.0) € Speech or (H) Competitive Speech (1.0 each) € Spanish I (1.0) € Machine Shop (0.5) € Computer Information Systems (1.0) € (H) River Science I € (H) Systems Go – Rocket Design I or II (1.0 each) € Physics (1.0)	

STEAM – Science, Technology, Engineering, Agriculture & Math Pathway

STEAM: Math

The **Math Pathway** prepares students for a future in mathematical career fields. Students interested in math can choose courses that implement a deep understanding of numerical principles.

Silver Level	Gold Level
Foundation Requirements | All 4.0 cr Grades 10-12 € Analytical Reading & Writing (1.0) € (H) Trigonometry (1.0) € (H) Pre-Calculus (1.0) € (H) College Statistics or AP Statistics (1.0)	Meet Silver Level requirements, and take additional courses.
Specialized Requirements | Pick 3.0 cr Grades 9-12 € Physics (1.0) € (H) Chemistry (1.0) € AP Computer Science Principles (1.0) € Speech or (H) Competitive Speech (1.0) € Spanish I (1.0) € Computer Applications II (1.0) € Accounting I (1.0) **Supporting Requirements | Pick 1.0 cr** Grades 9-12 € Woods I or Intro to Auto (0.5) € Welding 102 (1.0) € Economics (1.0) € Digital Graphic Design or (H) Digital Graphic Design II (1.0) € Web Design I (1.0) € (H) Computer Applications III (1.0) € (H) River Science I or II (1.0 each) € (H) Rocket Design I or II (1.0 each) € Intro to Game Design (1.0) € (H) Accounting II (1.0) € Computer Information Systems (1.0) € Engineering Design I (1.0)	**Gold Requirements | Pick 4.0 cr** Grades 10-12 € AP Chemistry (2.0) € AP Computer Science A (1.0) € AP Calculus (2.0) € Engineering Design II (1.0) € AP Physics (2.0) € (H) Computer Applications IV (1.0) € (H) Advanced Game Design (1.0) € (H) Systems Go: Rocket Design I (1.0) € (H) Systems Go: Rocket Design II (1.0)

PTECH – Pathways in Technology Early College High School

The **Pathways in Technology Early College High School** pathway is designed for students with a passion for Automotive Technology, Fire Science, or Computer Information Systems. Class work emphasizes career-based curriculum, college and career skills, and practical application.

Joining this program will provide students with their high school diploma and their Associate's Degree from Pueblo Community College free of cost. The program is non-traditional, meaning students can complete the program in 3-5 years (students can complete their high school diploma and Associate's at the same time, or students can take up to two years after high school to complete the program).

PATHWAYS

The **Advanced EMT Pathway** prepares students for a future in the medical field as a paramedic or for a pre-nursing track

The **Automotive Technology Pathway** prepares students for a future as an automotive technician with the potential to earn a multitude of industry recognized certificates.

The **Fire Science Pathway** prepares students for a future as a qualified firefighter, both in traditional worksites like municipal fire stations and on wildland fire sites. Within this pathway students can choose between two different options:
1. Firefighter with EMT
2. Wildland Firefighter

The **Computer Information Systems Pathway** prepares students for a career in technology, within a robust and highly demanded career field. Within this pathway students can choose between eight different options:
1. Computer Information Systems (general studies)
2. Graphic Design
3. Health IT Management and Support
4. IT Systems Administration
5. Networking Cyber Security
6. Networking Cyber Security with Health IT Emphasis
7. Software Development and Security
8. Web Design and Development

STUDENT CLUBS

National Honor Society
Link Crew Leadership
Auto Club
National Cyber Defense League

PTECH-Advanced EMT

The **Advanced EMT Pathway** prepares students for a future in the medical field as a paramedic or for a pre-nursing track. Qualified EMTs and paramedics continue to be in demand, both in traditional worksites like ambulance agencies, and with recent legislative additions (SB19-052, leg.colorado.gov), worksites like hospitals and long-term care facilities. Not only is there a 7% expected growth (faster than average) in the United States, there is a 32% projected growth in the state of Colorado (2020, onetoline.org). However, these numbers do not include the recent legislation that allows EMTs to work under the "medical supervision of a licensed physician, physician assistant, advanced practice nurse, or registered nurse," in any licensed health care facility (SB19-052). Our goal is to fill the workforce gap, including careers as explained by SB19-052, with younger students who will enter the workforce earlier and have a longer career.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)
(Students must pass the National Registry of EMT Certifying Exam to continue in the program.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 ● ENG 121-American Literature (3.0/1.0) ● ENG 122-World Literature (3.0/1.0) ● *COM 115- Public Speaking (3.0)	Meet Silver Level requirements and complete the following optional courses:
General Education Requirements-Math Grades 10-12 ● MAT 135-(H) College Statistics (3.0/1.0) **General Education Requirements** Grades 10-12 ● PSY 235-Human Growth and Development (3.0/1.0) ● *BIO 201-Anatomy and Physiology I (4.0) ● *BIO 202-Anatomy and Physiology II (4.0) **Medical Requirements** Grades 9-14	**Optional Courses | Additional 5.0** Grades 10-14 ● (H) Chemistry or AP Chemistry (1.0/2.0) ● Human Nutrition and Health (0.5) ● Culinary Nutrition (1.0) ● Psychology or AP Psychology (1.0) ● AP Biology (2.0) ● (H) Zoology (1.0)

- NUA 101, 102, 170, 171-Certified Nurse's Aide (CNA) (6.5/1)
- *HPR 102-CPR for Professionals (0.5)
- HPR 139-Medical Terminology (2.0/0.5)
- *HPR 190-Basic EKG Interpretation (2.0)
- *EMS 115-Emergency Medical Responder (3.0)
- *EMS 121-EMT Fundamentals (3.0)
- *EMS 122-EMT Medical Emergencies (4.0)
- *EMS 123-EMT Trauma Emergencies (2.0)
- *EMS 124-EMT Special Considerations (2.0)
- *EMS 170-EMT Clinical Internship (1.0)
- *EMS 180-EMT Clinical Internship (2.0)
- *EMS 127-AEMT Special Considerations (2.0)
- *EMS 129-AEMT Pharmacology (1.0)
- *EMS 132-EMS Intravenous/Intraosseous Therapy (2.0)
- *EMS 131-AEMT Fundamentals (2.0)
- *EMS 133-AEMT Medical Emergencies (2.0)
- *EMS 135-AEMT Trauma Emergencies (2.0)
- *EMS 171-AEMT Clinical Internship (2.0)

PTECH-Automotive Technology

The **Automotive Technology Pathway** prepares students for a career as an automotive technician. The demand for qualified automotive technicians has exceeded supply since the 1990's. They flag as much as $125 in labor rates per hour for their shops and potentially earn $100,000 per year within five years of training completion. Also, there is a 20% turnover rate in the industry. Paired with our American vehicle population increasing by 3 million per year, this means that the shortage of automotive technicians remains concerning. Our goal is to fill the gap in the workforce with qualified, younger students who will enter the workforce earlier and have a longer career to help stabilize the industry.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level

General Education Requirements-English
Grades 10-12
€ ENG 121-American Literature (3.0/1.0)
  OR
€ ENG 131-Analytical Reading & Writing (3.0/1.0)
€ *COM 115- Public Speaking (3.0)
  OR
€ *COM 125-Interpersonal Communication (3.0)
	Meet Silver Level requirements and complete the following optional certificates:

General Education Requirements-Math Grades 10-12 € MAT 107- Career Math (3.0/1.0) **General Education Requirements** Grades 10-12 € HWE 100-Human Nutrition and Health (3.0/0.5) **OR** € PHY 105-Conceptual Physics (4.0/1.0) € PSY 101-General Psychology (3.0/1.0) **Automotive Requirements**	**Optional Certificates | Additional 20.0** Grades 10-14 € Subaru University (75 certificates) € GATES Automotive (31 certificates) € S/P2 (16 Certificates) € Ford ACE (70 certificates) € Timken Tech (6 certificates) € Tire Industry Association (1 certificate) € ASE (9 certificates) € Snap-on (1 certificate) € Pro-cut USA (1 certificate)

Grades 9-14
- € ASE 102 & 120-Intro to Auto Technology (4.0/0.5)
- € ASE 110, 111, 210, 264, 282, 140, 141, 240, 265-Auto Technology I (18.0/4.0)
- € ASE 123, 130, 132, 281, 161, 162, 260-Auto Technology II (14.0/4.0)
- € *ASE 134-Automotive Fuel & Emissions Systems (2.0)
- € *ASE 151- Manual Transmissions/Transaxles and Clutches I (2.0)
- € *ASE 152- Manual Transmissions/Transaxle and Clutches II (2.0)
- € *ASE 221-Auto/Diesel Body Electrical (4.0)
- € *ASE 233-Fuel Injection and Emissions (4.0)
- € *ASE 236-Advanced Drivability/Diagnosis/Repair (4.0)
- € *ASE 250- Automatic Transmissions/Transaxle Service (1.0)
- € *ASE 251- Automatic Transmissions/Transaxle Repair (3.0)
- € *ASE 252-Advanced Automatic Transmissions/Transaxle (2.0)
- € *ASE 253- Advanced Manual Transmissions/Transaxle (2.0)

PTECH-Fire Science

The **Fire Science Pathway** prepares students for a future career as a firefighter. Qualified firefighters continue to be in demand, both in traditional worksites like municipal fire stations and on wildland fire sites. Additionally, firefighters with EMT training are especially in demand. A firefighter who is also an EMT significantly increases the competitive edge in hiring within fire departments. The outlook for forest firefighters, or wildland firefighters, is also positive. The increase in forest firefighter demand is directly related to the increasing number of wester wildfires annually, plus lengthening of the fire season by 5 months since the early 1970s, according to the Union of Concerned Scientists.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € *COM 115- Public Speaking (3.0) € ENG 121-American Literature (3.0/1.0) € ENG 122-World Literature (3.0/1.0) **OR** € ENG 131-Analytical Reading & Writing (3.0/1.0)	Meet Silver Level requirements and complete some of the following optional certificates (9-14 credits):
General Education Requirements-Math Grades 10-12 € MAT 107-Career Math (3.0/1.0) **OR** € MAT 121-College Algebra (4.0/1.0) **General Education Requirements** Grade 12 € *POS 111-American Government (3.0/1.0) **Fire Science Requirements** Grades 10-14 € FST 102, 103, 109-Intro to Fire Science (9.0/1.0) € *FST 100-Firefighter I (9.0) € *FST 105- Building Construction for Fire Professional (3.0) € *FST 106-Fire Prevention (3.0)	**Wildland Firefighter Certificate (6.75)** Grades 10-14 € *FSW 100-Intro to Wildland Fire Behavior (1.0) € *FSW 101-Firefighting Training & Human Factors on the Fireline (2.0) € FSW 102-Firefighter Type I (0.5) € FSW 103-Dispatch Recorder with Intro to Ross (1.0) € FSW 104-Intro to ICS (0.25) € FSW 143-Wildland Chainsaws (2.0) **Basic Wildland Firefighter "Red Card" Certificate (3.0)** Grades 10-14 € *FSW 100-Intro to Wildland Fire Behavior (1.0) € *FSW 101-Firefighting Training & Human Factors on the Fireline (2.0)

- € *FST 107- Hazardous Materials Operations (3.0)
- € *FST 202-Firefighting Strategy and Tactics (3.0)
- € *FST 209-Fire Projection Systems (3.0)
- € *Any FST, FSW, or EMT courses (12.0)

Fire Investigator I Certificate (9.0)
Grades 10-14
- € FST 103-Fire Behavior and Combustion Processes (3.0)
- € *FST 205 -Fire Investigation I (3.0)
- € *FST 252- Fire Investigation II (3.0)

Fire Officer I Certificate (12.0)
Grades 10-14
- € *FST 201-Instructional Methodology (3.0)
- € *FST 206-Fire Company Supervision/Leadership (3.0)
- € *FST 253-National Incident Management Systems (3.0)
- € *FST 255-Fire Service Management (3.0)

Fire Prevention and Public Education Certificate (14.0)
Grades 10-14
- € *FST 106- Fire Inspection Prevention (3.0)
- € *FST 150-Introduction to Fire Prevention Education (3.0)
- € *FST 204-Principles of Code Enforcement (3.0)
- € *FST 208-Fire Plans Review and Acceptance Testing (2.0)
- € *FST 209-Fire Protection Systems (3.0)

Vehicle Extraction Certificate (3.0)
Grades 10-15
- € *FST 126-Vehicle Extraction Awareness Level (1.0)
- € *FST 127-Vehicle Extraction Operations Level (2.0)

Emergency Medical Technician Certificate (12.0)
Grades 10-14
- € *EMS 121-EMT Fundamentals (3.0)
- € *EMS 122-EMT Medical Emergencies (4.0)
- € *EMS 123-EMT Trauma Emergencies (2.0)
- € *EMS 124- EMT Special Considerations (2.0)
- € *EMS 170-EMT Basic Clinical (1.0)

PTECH-CIS: General Studies

The **CIS: General Studies Pathway** prepares students for a future in Computer Information Systems. The CIS program teaches students basic networking, programming, and database technologies as well as technical aspects of the internet and data communications. The Associate of General Studies Degree with an emphasis in Computer Information Systems prepares students to transfer to Colorado State University-Pueblo as a junior to pursue a Bachelor's Degree in Computer Information Systems.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € ENG 121-American Literature (3.0/1.0) € ENG 122-World Literature (3.0/1.0) € *COM 115-Public Speaking (3.0)	Meet Silver Level requirements and complete some of the following optional certificates:
General Education Requirements-Math Grades 10-12 € MAT 121-College Algebra (4.0/1.0)	**Optional Certificates I | Pick 1** CompTia Network+ Certification: Grades 10-12 € Network+; Networking Fundamentals I € Network+; Networking Fundamentals II
General Education Requirements Grades 10-14 € *GT-SC1 with lab (4.0) € *GT-SC1 with lab (4.0) € *GT-AH1, AH2, or AH3 (3.0) € *ECO 201-Principles of Macroeconomics (3.0) € *ECO 202-Principles of Microeconomics (3.0) **CIS Requirements** Grades 10-14 € CIS 115-Intro to Computer Information Systems (3.0/1.0) € CIS 118-Intro to PC Applications (3.0/1.0)	CompTia A+ Certification: Grades 10-12 € A+ I: Hardware € A+ II: Software Licensed Expert: Microsoft Office: Grades 10-12 (H) Computer Applications IV **Optional Certificates II | Pick 2** Licensed Associate: Adobe: Grades 10-12 € Digital Graphic Design € (H) Digital Graphic Design II Small Business Management: Grades 10-12

- € *CNG 120-A+ Certification Preparation (4.0)
- € *CNG 124-Networking I: Network + (3.0)
- € *CSC 120-Problem Solving with Java (3.0)
- € *CSC 160-Computer Science I (4.0)
- € *CSC 161-Computer Science II (4.0)
- € *CSC 267-Object Oriented Design (3.0)

Elective Requirements | Pick 1
Grades 10-14
- € AAA 109-Advanced Academic Achievement (3.0/1.0)
- € *BUS 217-Business Communication & Report Writing (3.0)
- € *BUS 226-Business Statistics (3.0)
- € *MAN 226- Principles of Management (3.0)
- € *MAT 125-Survey of Calculus (4.0)

- € Business Management and Law
- € Personal Finance
- € Project Management

Licensed Expert: Microsoft Office:
Grades 10-12
- € Computer Applications II
- € (H) Computer Applications III

Unity Certified User:
Grades 10-12
- € Intro to Game Design
- € Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12
- € Accounting I
- € (H) Accounting II

PTECH-CIS: Graphic Design

The **CIS: Graphic Design Pathway** prepares students for a future as a layout artist, illustrator and/or website designer. This program teaches students to use current industry software to design and develop graphic elements that are produced for electronic and print communications. The integrated curriculum includes courses in fine art and design, graphic arts, computer layout and illustration, and small business planning. Courses are taught on both PC and MAC platforms.

Graphic Design is a highly competitive field and the key to starting a career is developing industry demanded skills and a portfolio to showcase your talents. Throughout the program, portfolio development and attaining the best business practices is emphasized with utmost importance.

The Graphic Design program prepares students for an entry-level career in graphic design and production. Career options range from working for a large corporation, print and sign shops, television and news organization as a digital artist, website design, news, advertising.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € ENG 121-American Literature (3.0/1.0) **OR** € ENG 131-Anaytical Reading & Writing (3.0/1.0) € *COM 115-Public Speaking (3.0) **OR** € *COM 125-Interpersonal Communication (3.0)	Meet Silver Level requirements and complete some of the following optional certificates:
General Education Requirements-Math Grades 10-12 € *MAT 112-Financial Math (3.0) **OR** € MAT 135-(H) College Statistics (3.0/1.0)	**Optional Certificates I | Pick 1** CompTia Network+ Certification: Grades 10-12 € Network+; Networking Fundamentals I € Network+; Networking Fundamentals II
General Education Requirements Grades 10-14 € *ART 131- Visual Concepts 2-D Design (3.0) € *ART 121-Drawing I (3.0)	CompTia A+ Certification: Grades 10-12 € A+ I: Hardware € A+ II: Software

OR
- € *ART 139-Digital Photography I (3.0)
- € HWE 100-Human Nutrition & Health (3.0)

OR
- € *GT-SC1 with lab (4.0)

CIS Requirements
Grades 10-14
- € CIS 118-Intro to PC Applications (3.0/1.0)
- € *JOU 105-Introduction to Mass Media (3.0)
- € *MGD 102-Introduction to Mass Media (3.0)
- € *MGD 105-Typography & Layout (3.0)
- € *MGD 111-Adobe Photoshop I (3.0)
- € *MGD 114-Adobe InDesign (3.0)
- € *MGD 133-Graphic Design I (3.0)
- € *MGD 141-Web Design I (3.0)
- € *MGD 227-Marcomm Practices (3.0)
- € *MGD 233-Graphic Design II (3.0)
- € *MGD 241- Web Design II (3.0)
- € *MGD 256-Graphic Design Production (3.0)
- € *MGD 268-Business for Creatives (3.0)
- € *MGD 280-Internship (3.0)
- € *MGD 289-Capstone (3.0)
- € *MGD 112-Adobe Illustrator I (3.0)

OR
- € *MGD 143-Motion Graphic Design I: Software (3.0)

Licensed Expert: Microsoft Office:
Grades 10-12
- € (H) Computer Applications IV

Optional Certificates II | Pick 2
Licensed Associate: Adobe:
Grades 10-12
- € Digital Graphic Design
- € (H) Digital Graphic Design II

Small Business Management:
Grades 10-12
- € Business Management and Law
- € Personal Finance
- € Project Management

Licensed Expert: Microsoft Office:
Grades 10-12
- € Computer Applications II
- € (H) Computer Applications III

Unity Certified User:
Grades 10-12
- € Intro to Game Design
- € Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12
- € Accounting I
- € (H) Accounting II

PTECH-CIS: Health IT Management Support

The **CIS: Health IT Management Support Pathway** prepares students for a future as an HIT Implementation Specialist, Informatics Specialist, Informatics Trainer, Implementation and Support Trainer, Project Manager, or Implementation Support Specialist. Health Information Technology in the area of HIT Management and Support is a specialized field within the computer and information technology sector. The types of careers available for students graduating as an Implementation Management and Support Specialist (CHTS-IM or CHTS-IS) will be entry-level positions. With increased experience and continued education, graduates may be able to evolve in their careers to Analyst, Administrator, Management, and other advanced positions.

According to the U.S. Bureau of Statistics: The employment of computer support specialists is projected to grow 13% from 2016 to 2026, faster than the average for all occupations. More support services will be needed as organizations continue to upgrade their computer equipment and software.

This program emphasizes HIT (Health Information Technology) Management and Support which prepares students for a leadership role in the planning, implementation, updating, and changing software systems for electronic health records, in accordance with governmental mandates. It also promotes skills in training in the use of electronic health records. The program provides exposure to the following Health Information Technology areas: medical vocabulary, healthcare workflow, quality management, legal aspects of health records, and computer courses in programming, networks, configuration, healthcare software, working with health information technology systems, and additionally, offers a field internship experience.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 ● ENG 121-American Literature (3.0/1.0) **OR** ● ENG 131-Anaytical Reading & Writing (3.0/1.0) ● *COM 125-Interpersonal Communication (3.0)	Meet Silver Level requirements and complete some of the following optional certificates:

General Education Requirements-Math

Grades 10-12

- MAT 135-(H) College Statistics (3.0/1.0)

General Education Requirements

Grades 10-14

- *BIO 106-Basic Anatomy & Physiology (4.0)
- PSY 101-General Psychology I (3.0)

CIS Requirements

Grades 10-14

- CIS 115-Intro to Computer Information Systems (3.0/1.0)
- CIS 118-Intro to PC Applications (3.0/1.0)
- *HIT 102-Medical Vocabulary (3.0)
- *HIT 111-Health Data Management & Information Systems (3.0)
- *HIT 112-Legal Aspects Health Records (2.0)
- *HIT 120-Working with Health IT Systems (4.0)
- *HIT 121-Networking Health Information Exchange (2.5)
- *HIT 122-Workflow Fundamentals of Healthcare (3.0)
- *HIT 123-Configuring EHRs (3.0)
- *HIT 150-Healthcare Delivery Systems (3.0)
- *HIT 222-Quality Management (3.0)
- *HIT 261-Healthcare Software (3.0)
- *CSC 120-Problem Solving with Java (3.0)
- *BTE* 287-Coop/Internship (3.0)
- *MAN 241-Project Management & Information Systems (3.0)

Optional Certificates I | Pick 1

CompTia Network+ Certification:
Grades 10-12

- Network+; Networking Fundamentals I
- Network+; Networking Fundamentals II

CompTia A+ Certification:
Grades 10-12

- A+ I: Hardware
- A+ II: Software

Licensed Expert: Microsoft Office:
Grades 10-12

- (H) Computer Applications IV

Optional Certificates II | Pick 2

Licensed Associate: Adobe:
Grades 10-12

- Digital Graphic Design
- (H) Digital Graphic Design II

Small Business Management:
Grades 10-12

- Business Management and Law
- Personal Finance
- Project Management

Licensed Expert: Microsoft Office:
Grades 10-12

- Computer Applications II
- (H) Computer Applications III

Unity Certified User:
Grades 10-12

- Intro to Game Design
- Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12

- Accounting I
- (H) Accounting II

PTECH-CIS: IT Systems Administration

The **CIS: IT Systems Administration Pathway** prepares students for a future as a network or computer systems administrator. Employment of network and computer systems administrators is projected to grow 6 percent from 2016 to 2026, about as fast as the average for all occupations. Demand for information technology (IT) workers is high and should continue to grow as firms invest in newer, faster technology and mobile networks. The median annual wage for network and computer systems administrators was $81,100 in May 2017.

Computer networks are critical parts of almost every organization. Network and computer systems administrators are responsible for the day-to-day operation of these networks. They organize, install, and support an organization's computer systems, including local area networks (LANs), wide area networks (WANs), network segments, intranets, and other data communication systems. The AAS in IT Systems Administration program provides training for a network and system administration entry level job.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € ENG 121-American Literature (3.0/1.0) **OR** € ENG 131-Anaytical Reading & Writing (3.0/1.0)	Meet Silver Level requirements and complete some of the following optional certificates:
General Education Requirements-Math Grades 10-12 € MAT 108- Technical Math (4.0/1.0) **OR** € MAT 121- College Algebra (4.0/1.0)	**Optional Certificates I | Pick 1** CompTia Network+ Certification: Grades 10-12 € Network+; Networking Fundamentals I € Network+; Networking Fundamentals II
CIS Requirements Grades 10-14 € CIS 115-Intro to Computer Information Systems (3.0/1.0) € CIS 118-Intro to PC Applications (3.0/1.0) € *CIS 220-Fundamentals of UNIX (3.0) € *CIS 240-Database Design & Development (3.0) € *CIS 243-Intro to SQL (3.0)	CompTia A+ Certification: Grades 10-12 € A+ I: Hardware € A+ II: Software Licensed Expert: Microsoft Office: Grades 10-12 € (H) Computer Applications IV **Optional Certificates II | Pick 2** Licensed Associate: Adobe:

- € *CIS 287-Cooperative Education (2.0)
- € *CNG 104-Intro to TCP/IP (3.0)
- € *CNG 120-A+ Certification Preparation (4.0)
- € *CNG 124-Networking I: Network + (3.0)
- € *CNG 132-Network Security Fundamentals (3.0)
- € *CNG 136-Guide to Disaster Recovery (3.0)
- € *CNG 212-Configuring Windows Server (4.0)
- € *CNG 224-Microsoft Windows Wireless Network (3.0)
- € *CSC 120-Problem Solving with Java (3.0)
- € *BUS 217-Business Communication and Report Writing (3.0)
- € *MAN 241-Project Management in Organizations (3.0)

Elective Requirements | 4.0 Cr
Grades 10-14
- € *CSC 160-Computer Science I (Language) (4.0)
- € *CNG 133-Network Security: Fire Walls & Intrusion Detection (3.0)
- € *CNG 251-Anti-Virus Concepts (3.0)

Grades 10-12
- € Digital Graphic Design
- € (H) Digital Graphic Design II

Small Business Management:
Grades 10-12
- € Business Management and Law
- € Personal Finance
- € Project Management

Licensed Expert: Microsoft Office:
Grades 10-12
- € Computer Applications II
- € (H) Computer Applications III

Unity Certified User:
Grades 10-12
Intro to Game Design
Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12
- € Accounting I
- € (H) Accounting II

PTECH-CIS: Networking Cyber Security

The **CIS: Networking Cyber Security Pathway** prepares students for a future career in security administration and technical support with a focus on cybersecurity. Globally, the shortage of cybersecurity professionals in nearly 3 million.

The PCC CIS department has been awarded the designation of "National Center of Academic Excellence in Cyber Defense Education" by the National Security Agency of the United States of America (NSA) and the U.S. Department of Homeland Security. This program has met the stringent academic standards and institutional criteria established by the NSA and DHS. These programs contribute graduates to the cyber workforce in support of the nation's industry and government employers.

Coursework includes training in the assessment and resolution of network problems, breeches, encryption, disaster recovery, and maintenance. Coursework includes training in PC hardware and operating systems, Windows servers, networking, routing, security, and virtualization. Students can prepare for industry certifications such as CompTIA A+, Network+ and Security+ creating an important advantage in gaining employment in today's job market.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € ENG 121-American Literature (3.0/1.0) **OR** € ENG 131-Anaytical Reading & Writing (3.0/1.0)	Meet Silver Level requirements and complete some of the following optional certificates:
General Education Requirements-Math Grades 10-12 € MAT 108- Technical Math (4.0/1.0) **OR** € MAT 135-(H) College Statistics (3.0/1.0)	**Optional Certificates I | Pick 1** CompTia Network+ Certification: Grades 10-12 € Network+; Networking Fundamentals I € Network+; Networking Fundamentals II
CIS Requirements Grades 10-14 € *CSC 120-Problem Solving with Java (3.0)	CompTia A+ Certification: Grades 10-12 € A+ I: Hardware € A+ II: Software Licensed Expert: Microsoft Office:

- € CIS 115-Intro to Computer Information Systems (3.0/1.0)
- € CIS 118-Intro to PC Applications (3.0/1.0)
- € *CIS 220-Fundamentals of UNIX (3.0)
- € *CIS 287-Cooperative Education (2.0)
- € *CNG 104-Intro to TCP/IP (3.0)
- € *CNG 120-A+ Certification Preparation (4.0)
- € *CNG 124-Networking I: Network + (3.0)
- € *CNG 132-Network Security Fundamentals (3.0)
- € *CNG 136-Guide to Disaster & Recovery (3.0)
- € *CNG 212-Configuring Windows Server (4.0)
- € *CNG 224-Microsoft Windows Wireless Network (3.0)
- € *CNG 258-Digital Forensics (4.0)
- € *CNG 131-Principles of Information Assurance (3.0)
  OR
- € *CNG 133-Network Security: Firewalls (3.0)

Elective Requirements | Pick 10 cr
Grades 10-14
- € *CNG 254-Data Encryption (3.0)
- € *CNG 256-Vulnerability Assessment I (3.0)
- € *CSC 160-Computer Science I (Language) (4.0)
- € *CSC 161-Computer Science II (Language) (4.0)
- € *CSC 267-Object Oriented Analysis & Design (3.0)

Grades 10-12
- € (H) Computer Applications IV

Optional Certificates II | Pick 2
Licensed Associate: Adobe:
Grades 10-12
- € Digital Graphic Design
- € (H) Digital Graphic Design II

Small Business Management:
Grades 10-12
- € Business Management and Law
- € Personal Finance
- € Project Management

Licensed Expert: Microsoft Office:
Grades 10-12
- € Computer Applications II
- € (H) Computer Applications III

Unity Certified User:
Grades 10-12
- € Intro to Game Design
- € Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12
- € Accounting I
- € (H) Accounting II

PTECH-CIS: Networking Cyber Security with Health IT Emphasis

The **CIS: Networking Cyber Security with Health IT Emphasis Pathway** prepares students for a future as a network security technician in a healthcare setting. Integrity and safety of patient health records is fundamental to ensuring quality healthcare and positive patient outcomes. And yet, it is continually attacked by cybercriminals for reasons of data ransoming, corporate espionage, fraud, financial crimes, identity theft, and intentional disruptions. Healthcare data breaches are increasing, and industry experts warn that cybersecurity investments must increase to keep pace with a fast-changing threat environment. The HIT Network Security Certificate and Degree provide the graduate with the opportunity to enter this exciting field in an entry-level position. And, with additional experience and education, graduates can advance their career to many senior level security positions.

Network security applies to the protection of patient information, safeguarding networks, and keeping all healthcare data usage and exchange safe and free from corruption, theft, and interference. This is all done while adhering to federal and state regulations, and organizational policies and procedures. The HIT Network Security profession supports the network information technology needs of healthcare members, in their applicable healthcare settings.

This certificate and degree provide students the education needed to support healthcare information systems' security and standards. It educates them in the assessment and resolution of network problems, breeches, encryption, disaster recovery, and maintenance. Coursework includes training in PC hardware and operating systems, Windows servers, networking, routing, security, and virtualization. Students can prepare for industry certifications such as CompTIA Network+, CompTIA Sec+, and CWNA, creating an important advantage in gaining employment in today's job market.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € ENG 121-American Literature (3.0/1.0) **OR** € ENG 131-Anaytical Reading & Writing (3.0/1.0)	Meet Silver Level requirements and complete some of the following optional certificates:

General Education Requirements-Math
Grades 10-12
- € MAT 108-Technical Math (4.0/1.0)
  OR
- € MAT 135-(H) College Statistics (3.0/1.0)

CIS Requirements
Grades 10-14
- € *CSC 120-Problem Solving with Java (3.0)
- € CIS 115-Intro to Computer Information Systems (3.0/1.0)
- € CIS 118-Intro to PC Applications
- € *CIS 220-Fundamentals of Unix (3.0)
- € *CNG 104-Introduction to TCP/IP
- € *CNG 120-A+ Certification Preparation (4.0)
- € *CNG 124-Networking 1: Network+ (3.0)
- € *CNG 131-Principles of Information Assurance (3.0)
  OR
- € *CNG 133-Network Security: Firewalls (3.0)
- € *CNG 132-Network Security Fundamentals (3.0)
- € *CNG 136-Guide to IT Disaster Recovery (3.0)
- € *CNG 212-Configuring Windows Server (4.0)
- € *CNG 224-Microsoft Windows Wireless Network (3.0)
- € *CNG 258-Digital Forensics (4.0)

Health IT Requirements
Grades 10-14
- € *HIT 102-Medical Terminology (3.0)
- € *HIT 111-Health Data Management & Information Systems (3.0)
- € *HIT 112-Legal Aspects of Health Records (2.0)
- € *HIT 120-Working with Health IT Systems (4.0)
- € *HIT 150-Healthcare Delivery Systems (3.0)
- € *HIT 222-Quality Management (3.0)
- € *HIT 289-Cooperative Education/ Occupational Experience (3.0)

Optional Certificates I | Pick 1
CompTia Network+ Certification:
Grades 10-12
- € Network+; Networking Fundamentals I
- € Network+; Networking Fundamentals II

CompTia A+ Certification:
Grades 10-12
- € A+ I: Hardware
- € A+ II: Software

Licensed Expert: Microsoft Office:
Grades 10-12
- € (H) Computer Applications IV

Optional Certificates II | Pick 2
Licensed Associate: Adobe:
Grades 10-12
- € Digital Graphic Design
- € (H) Digital Graphic Design II

Small Business Management:
Grades 10-12
- € Business Management and Law
- € Personal Finance
- € Project Management

Licensed Expert: Microsoft Office:
Grades 10-12
- € Computer Applications II
- € (H) Computer Applications III

Unity Certified User:
Grades 10-12
- € Intro to Game Design
- € Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12
- € Accounting I
- € (H) Accounting II

Optional Electives

Grades 10-14

- € *CSC 160-Computer Science I (Language) (4.0)
- € *CSC 161-Computer Science II (Language) (4.0)
- € *CSC 267-Object Oriented Design (3.0)
- € *CNG 254-Data Encryption (4.0)
- € *CNG 256-Vulnerability Assessment (3.0)

PTECH-CIS: Software Development & Security

The **CIS: Software Development & Security Pathway** prepares students for a future career in software development. Software development was the second-largest job ad by occupation in Colorado at the end of 2019. Employment of software developers is projected to grow 24% from 2016 to 2026, much faster than the average for all occupations. Software developers will be needed to respond to an increased demand for computer software. The median annual wage for software developers (applications) was $101,790 in May 2017. The median annual wage for software developers (systems software) was $107,600 in May 2017.

This program offers students to learn computer programming in Java, database development fundamentals, design and development of software application, analyzing business problems and designing solutions, Structured Query Language (SQL), Client-Scripting (JavaScript), and mobile app development. This program is a direct transfer to PCC's bachelor's degree of Software Development.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € ENG 121-American Literature (3.0/1.0) **OR** € ENG 131-Anaytical Reading & Writing (3.0/1.0)	Meet Silver Level requirements and complete some of the following optional certificates:
General Education Requirements-Math Grades 10-12 € MAT 121-College Algebra (4.0/1.0)	**Optional Certificates I	Pick 1** CompTia Network+ Certification: Grades 10-12 € Network+; Networking Fundamentals I € Network+; Networking Fundamentals II
CIS Requirements Grades 10-14 € *CSC 120-Problem Solving with Java (3.0) € CIS 115-Intro to Computer Information Systems (3.0/1.0) € CIS 118-Intro to PC Applications (3.0/1.0)	CompTia A+ Certification: Grades 10-12 € A+ I: Hardware € A+ II: Software Licensed Expert: Microsoft Office: Grades 10-12 € (H) Computer Applications IV

- € *CIS 220-Fundamentals of UNIX (3.0)
- € *CIS 240-Database Design & Development (3.0)
- € *CIS 243-Intro to SQL (3.0)
- € *CIS 287-Cooperative Education (2.0)
- € *CNG 124-Networking I: Network + (3.0)
- € *CNG 131-Principles of Information Assurance (3.0)
- € *CNG 132-Network Security Fundamentals (3.0)
- € *CNG 212-Configuring Windows Server (4.0)
- € *CSC 160-Computer Science I (Language) (4.0)
- € *CSC 161-Computer Science II (Language)(4.0)
- € *CSC 241-Advanced Java Programming (3.0)
- € *CSC 246-Mobile App Development
- € *CSC 267-Object Oriented Analysis & Design (3.0)
- € *CWB 205-Client-Side Scripting (3.0)

Optional Certificates II | Pick 2

Licensed Associate: Adobe:
Grades 10-12
- € Digital Graphic Design
- € (H) Digital Graphic Design II

Small Business Management:
Grades 10-12
- € Business Management and Law
- € Personal Finance
- € Project Management

Licensed Expert: Microsoft Office:
Grades 10-12
- € Computer Applications II
- € (H) Computer Applications III

Unity Certified User:
Grades 10-12
- € Intro to Game Design
- € Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12
- € Accounting I
- € (H) Accounting II

PTECH-CIS: Web Design & Development

The **CIS: Web Design & Development Pathway** prepares students for a future career as a web designer. Connect people with information in the Digital World. The Web Design and Development program provides high demand skills in the digital world of information and technology. The PCC Web Design and Development degree prepares students for a career in web-based multimedia applications with an emphasis on web coding and development. You will be able to employ current technologies, manage, and test digital media applications that adhere to the industry standards. Students practice communications theory, conceptual and creative development, and careful consideration of the "end-user" experience. All while meeting the needs of customers with sound business practices. You will gain knowledge to earn gainful employment or start your own business.

The Web Design and Development program teaches students the necessary coding languages to build and maintain websites, mobile applications, and other interactive multimedia. We go beyond the basics, adding the high demand skills of database development, basic networking, aesthetics, and search engine optimization and analytics. This integrated curriculum includes courses in business, communication, design, and project management. The software applications are current with industry standards.

(Courses with an asterisk (*) are courses that will be completed on the PCC campus.)

Silver Level	Gold Level
General Education Requirements-English Grades 10-12 € ENG 121-American Literature (3.0/1.0) € *COM 115-Public Speaking (3.0) **OR** € *COM 125-Interpersonal Communication (3.0)	Meet Silver Level requirements and complete some of the following optional certificates:
General Education Requirements-Math Grades 10-12 € MAT 121-College Algebra (4.0/1.0) **OR** € MAT 135-(H) College Statistics (3.0/1.0)	**Optional Certificates I | Pick 1** CompTia Network+ Certification: Grades 10-12 € Network+; Networking Fundamentals I € Network+; Networking Fundamentals II CompTia A+ Certification: Grades 10-12 € A+ I: Hardware € A+ II: Software
CIS Requirements Grades 10-14	

- € *JOU 105-Introduction to Mass Media (3.0)
- € CIS 118-Intro to PC Applications (3.0/1.0)
- € *MGD 105-Typography & Layout (3.0)
- € *MGD 102-Introduction to Multimedia (3.0)
- € *MGD 111-Adobe Photoshop I (3.0)
- € *MGD 141-Web Design I (3.0)
- € *MGD 143-Motion Graphic Design I (Software) (3.0)
- € *MGD 164-Digital Video Editing (3.0)
- € *MGD 227-Marcomm Practices (3.0)
- € *MGD 241-Web Design II (3.0)
- € *MGD 242-Web Architecture: Open Source Design (3.0)
- € *MGD 268-Business for Creatives (3.0)
- € *MGD 280-Internship (3.0)
- € *MGD 289-Capstone (3.0)
- € *CWB 206-Server-Side Scripting (Software) (3.0)
- € *CWB 208-Web Application Development
- € *CWB 209-Web Content Management Systems (3.0)
- € *CSC 120-Problem Solving with Java (3.0)
- € *CNG 124-Networking I: Network + (3.0)

Licensed Expert: Microsoft Office:
Grades 10-12
- € (H) Computer Applications IV

Optional Certificates II | Pick 2

Licensed Associate: Adobe:
Grades 10-12
- € Digital Graphic Design
- € (H) Digital Graphic Design II

Small Business Management:
Grades 10-12
- € Business Management and Law
- € Personal Finance
- € Project Management

Licensed Expert: Microsoft Office:
Grades 10-12
- € Computer Applications II
- € (H) Computer Applications III

Unity Certified User:
Grades 10-12
- € Intro to Game Design
- € Advanced Game Design

Licensed Certified User: Quickbooks:
Grades 10-12
- € Accounting I
- € (H) Accounting II

Cañon City High School
Course Offering Book

ACADEMIC CORE

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

ENGLISH LANGUAGE ARTS

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Language Arts 9	A		9	2	ILP; IEP, ELL; MTSS; Teacher approval or Recommendation; demonstrate below grade-level reading proficiency by most recent evaluation
English 9			9	2	Demonstrate grade-level reading proficiency by most recent evaluation
(H) English 9	H		9	2	Demonstrate above grade-level reading and writing proficiency by most recent evaluation as well as a 3.5 GPA in middle-school English classes
Language Arts 10	A		10	2	ILP; IEP, ELL; MTSS; Teacher approval or recommendation; demonstrate below grade-level reading proficiency by most recent evaluation
English 10			10	1	English 9 or (H) English 9
(H) English 10	H		10	1	English 9 or (H) English 9 with a teacher recommendation
Drama I			9,10,11,12	1	Course fee applicable
Drama II	C	THE 105	9,10,11,12	1	Drama I or instructor's approval
Speech			9,10	1	Semester 1 of English 9; no freshmen first semester
List A					
American Literature & Argument	C, X	ENG 121	11,12	1	English 10;
AP Language & Composition	H, C, X	ENG 121	11,12	1	English 10 or (H); Teacher Recommendation
English 11	X		11	1	Language Arts 10 or English 10
World Literature	C, X	ENG 122	11,12	1	English 10 or (H) English 10; completion of ENG 121 for Concurrent Enrollment
AP Literature & Composition	H, C, X	ENG 122	11,12	1	English 10 or (H) English 10; completion of ENG 121 for Concurrent Enrollment
English 12	X		12	1	English 10; English course at the junior level
List B					
Creative Writing	C	ENG 221	11,12	1	English 10 or (H) English 10;
Podcasting			11, 12	1	Language Arts 10 or English 10
Analytical Reading and Writing	C	ENG 131	11,12	1	English 10 or (H) English 10
Drama III	C	THE 105	10,11,12	1	Drama I and Drama II
(H) Competitive Speech	H, X		11,12	1	English 10 or (H) English 10 with teacher recommendation
Technical Theatre	C	THE 116/131	9,10,11,12	1	
Video Production I	C		10,11,12	1	
Broadcasting	C	MGD104	10,11,12	1	Video Production I
Film Editing	C	MGD 164	10, 11, 12	1	Video Production I

NOTE: Juniors and seniors are required to successfully complete a full credit of English during each year, and at least one must come from List A.

LANGUAGE ARTS 9 – (Prerequisite: ILP, IEP, ELL, MTSS; Teacher approval or recommendation; Demonstrates below grade-level proficiency by most recent evaluation) This year-long course will work on strengthening reading fluency and comprehension, analyzing, and decoding skills. Students will analyze literary elements in short stories, essays, novels, and plays. Students will also explore the writing process through the study of grammar, usage, vocabulary, outline organization, thesis statements, drafting, and revising a five-paragraph essay.

ENGLISH 9 – This year-long course builds on students' reading and writing skills. Students will analyze different literary elements in short stories, essays, novels, and plays. Oral presentations will be prepared and performed. Students will also explore the writing process through the study of grammar, usage, vocabulary, outline organization, thesis statements, drafting, and revising a five-paragraph essay.

(H) ENGLISH 9 – Students who are reading and writing at advanced levels will be reading, responding to, and discussing novels, poetry, short stories, non-fiction essays, technical material, plays, and speeches. This course will reinforce students' advanced writing skills and enhance their logical thinking. Students will justify valid thesis statements with cogent discussion of facts from quality sources, with citations, through both written and oral presentations to audiences inside and outside of the school.

LANGUAGE ARTS 10 – (Prerequisite: ILP, IEP, ELL, MTSS; Teacher approval or recommendation; Demonstrates below grade-level proficiency by most recent evaluation) This year-long course will work on strengthening reading fluency, comprehension, analyzing, and decoding skills. Students will analyze literary elements in short stories, essays, novels, and plays. Students will also explore the writing process through the study of grammar, usage, vocabulary, outline organization, thesis statements, drafting, and revising a five-paragraph essay.

ENGLISH 10 – Students will read fiction and non-fiction for insight into the human experience and cultural awareness. Classic and contemporary literature will provide students diverse opportunities for study and evaluation. Students will refine the writing process, begin the formal research process, and learn strategies to become more coherent and precise thinkers and writers.

(H) ENGLISH 10 – Students who are reading and writing at advanced levels will be reading, responding to, and discussing novels, poetry, short stories, non-fiction essays, technical material, plays, and speeches. This course will reinforce students' advanced writing skills and enhance their logical thinking. This honors course provides students with an intensive study of grammar and mechanics which are then applied to paragraph, essay, report, and research writing. Many oral presentations are required. The course is designed for college-bound students.

DRAMA I – An introduction to all aspects of the theatre world. Students will act, design, learn theatre history, and apply makeup. $25 course fee

DRAMA II – An advanced study in theatre. Students will research theatre history, participate in advanced actor training, and write and produce plays.

DRAMA III – This class offers students the opportunity to earn college credit; see page 3 for more details. This is an intensive course in theatre production, specifically acting. Students will be instructed in advanced acting skills as well as auditioning, improvisation, playwriting, direction, and dramatic literature. Drama III will emphasize instruction for post-secondary work in community theatre and collegiate theatre. Students will be expected to participate in all productions. Students taking the course must remain in the course for a full semester to earn senior English credit.

SPEECH – This class provides a creative outlet to hone performance communication and public speaking skills.

(H) COMPETITIVE SPEECH – This class provides a creative outlet to hone performance communication skills. Class enables student to better participate on the competitive Speech and Debate team (if desired). Juniors and seniors will earn honors credit for completing the course successfully.

AMERICAN LITERATURE AND ARGUMENT – This class offers students the opportunity to earn college credit. Focused on fiction and non-fiction within American literature, this course will allow students to discover the humanity in the writing and events that shaped our nation's history. The course provides students with an opportunity to practice and refine the writing and research processes. It further involves students in critical analysis, oral and written presentations, and the study of grammar, usage, and vocabulary.

AP LANGUAGE AND COMPOSITION – This class offers students the opportunity to earn college credit and an AP designation on their transcript. An expectation of this course is that the students have advanced composition and literary interests and skills. Focused on fiction and non-fiction within American literature, this course is designed for juniors and seniors who want to challenge themselves and discover the humanity in the writing and events that shaped our nation's history. The course provides students with an opportunity to practice and refine the writing and research processes. It further involves students in critical analysis, oral and written presentations, and the study of grammar, usage, and vocabulary.

ENGLISH 11 – This Career Preparedness Pathway English course will develop student success by providing the communication skills students need to be successful within their personal and professional relationships when they enter the skilled workforce. This course will encourage students to read and write analytically using literature as well as non-fiction essays, provide career knowledge, adapt the writing process through various hands-on projects, and develop 21st Century communication skills.

WORLD LITERATURE – This class offers juniors and seniors the opportunity to earn college credit; see page 3 for more details. A study of works of world literature. The course emphasizes the study and consideration of the literary, cultural, and human significance of selected great works of the world's literary traditions. An important goal of the class is to promote an understanding of the works in their cultural/historical contexts and of the enduring human values which unite the different literary traditions. The course gives special attention to critical thinking and writing within a framework of cultural diversity. Writing instruction will emphasize format, supporting content, vocabulary development, style, grammar, usage, and mechanics. Students will apply writing strategies to a variety of creative, academic, and practical assessments.

AP LITERATURE AND COMPOSITION – This class offers students the opportunity to earn college credit and an AP designation on their transcript. The class will follow the requirements set forth by AP. The class will cover poetry, short fiction, novels, plays, and epics. Beyond the genre requirement, AP also requires a vast time range with works from the Renaissance (specifically Shakespeare), the Victorian era, and the Modern era being covered. AP recommends the study of at least six larger works (novels, plays, epics).

ENGLISH 12 – This Career Preparedness Pathway English course will develop student success by providing the communication skills students need to be successful within their personal and professional relationships when they enter the skilled workforce. This course will encourage students to read and write analytically using literature as well as non-fiction essays, provide career knowledge, adapt the writing process through various hands-on projects, and develop 21st Century communication skills.

CREATIVE WRITING – This class offers students the opportunity to earn college credit; see page 3 for details. A cross-pathway course. This course will focus on three major genres: short stories, creative non-fiction and poetry. Students will read and analyze contemporary literature in each genre while writing their own pieces for the area studied and then participate in writer's workshop style revision to practice giving and receiving feedback for class work.

PODCASTING – This course offers students the opportunity to listen to, create, and analyze "texts" of the podcasting medium by using creative writing workshop. Students will discuss and write about podcasting, its influences, and techniques. They will study, listen, and analyze how the layers of writing, pitching, recording, editing become the stories we hear. By merging their knowledge, creativity, and performance skills from other English classes with audio technology, students will produce their own podcasts. Students can earn a "List B" English credit from a full semester of participation in either their junior or senior year.

ANALYTICAL READING AND WRITING – This class offers students the opportunity to earn college credit. Within the fields of science, engineering, technology business and professional occupations, students will develop abilities to organize and create manuals, journal articles, scientific data and research, and other technical publications. Students will utilize a multifaceted approach to reading and writing skills through a research-based technique within the field of analytical reading and writing.

TECHNICAL THEATRE – An introduction to all aspects of technical theatre. Students will learn lighting, sound, set, costume, props, and makeup design and implementation. Students will participate in the technical aspects of stage productions during class. Students can earn a "List B" English credit from a full semester of participation in either their junior or senior year.

VIDEO PRODUCTION I – An introduction to film history, video basics, editing, media and the production process. Students can earn a "List B" English credit from a full semester of participation in either their junior or senior year.

BROADCASTING – An introduction to video broadcasting, studio work, advertising, and video editing for broadcast. Students can earn a "List B" English credit from a full semester of participation in either their junior or senior year.

FILM EDITING – In this course students will learn how to film various shots and perspectives to create professional looking film. Students will also learn how to use Adobe Premiere to edit and manipulate video. Students will use techniques in media management, editing, titles, transitions, filters, and special effects to create professional looking videos. This class is a concurrent enrollment class offered through PCC.

MATHEMATICS

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Foundations of Algebra A			9	2	Teacher approval/recommendation
Foundations of Algebra			9	2	
Algebra I Part I			9,10,11	1	
Algebra I Part II			9,10,11	1	Foundations of Algebra or Algebra I Part I
Geometry			9,10,11,12	1	Algebra I Part II
Career Math	C, X	MAT 107*	10,11,12	1	*Concurrent Enrollment available ONLY after completion of two math courses prior to Career Math
Technical Math	C, X	MAT 108*	10,11,12	1	*Concurrent Enrollment available ONLY after completion of two math courses prior to Technical Math
Financial Math	C	MAT 112*	10,11,12	1	*Concurrent enrollment available ONLY after completion of two math courses prior to Career Math; Concurrent Enrollment not available at the freshmen level
Math for Liberal Arts	C	MAT 120	11,12	1	Algebra I Part II
Algebra II	X		9,10,11,12	1	Algebra I Part II
(H) College Algebra	H,C, X	MAT 121	10,11,12	1	Geometry and Algebra II
Statistics			10,11,12	1	Financial Math or Algebra I Part II
(H) College Statistics	H,C	MAT 135	10,11,12	1	Algebra II
AP Statistics	H, AP		10,11,12	1	Algebra II
AP Computer Science Principles	H, AP		10,11,12	1	Algebra I Part II
AP Computer Science A	H, AP		11,12	1	Algebra II
(H) Trigonometry	H		10,11,12	1	Geometry and Algebra II
(H) Pre-Calculus	H		11,12	1	(H) Trigonometry

AP Calculus	H, AP		11,12	2	(H) Pre-Calculus

NOTES:
- ● **For all math courses, refer to the math tracks diagram for suggested prerequisites.**
- ● **All freshmen will take two math courses unless they have completed Geometry.**
- ● **For students planning to attend a Colorado 4-year college after high school, it is recommended that students should complete through Algebra II. However, some college program requirements differ. For specific academic requirements, it is advised that students contact admissions or academic advising at the institution(s) they are considering.**

FOUNDATIONS OF ALGEBRA A – (Prerequisite: ILP, IEP, ELL, MTSS; Teacher approval or recommendation; Demonstrates below grade-level proficiency by most recent evaluation) This year-long, 2-credit freshman option is for students who need a slower-paced approach to the traditional Algebra I curriculum. Students will cover all of the topics covered in Algebra I Part I, with additional opportunities to revisit and expand their understanding of foundational concepts. Instruction will include the appropriate use of manipulatives, technology, and exposure to related disciplines (computer science, engineering, design, etc.) After successful completion of the course, students may go on to take Algebra I Part II or Career/Technical Math.

FOUNDATIONS OF ALGEBRA – This year-long, 2-credit freshman option is for students who need a slower-paced approach to the traditional Algebra I curriculum. Students will cover all of the topics covered in Algebra I Part I, with additional opportunities to revisit and expand their understanding of foundational concepts. Instruction will include the appropriate use of manipulatives, technology, and exposure to related disciplines (computer science, engineering, design, etc.) After successful completion of the course, students may go on to take Algebra I Part II or Career/Technical Math.

ALGEBRA I PART I - This course permits the student to master the following basic topics of algebra: signed numbers, absolute value, translation of phrases to mathematical expressions, order of operations, solving equations, linear equations, slope, x/y graphing, functions, direct variation, mathematical properties, practical applications, and communication of mathematical reasoning. Algebra I Part 1 and Algebra I Part 2 should be taken in the same school year and/or in consecutive semesters.

ALGEBRA I PART II - This course permits the student to master the following topics of algebra: algebraic fractions, ratios, proportions, inverse variations, percent, operations and factoring of polynomials, systems of equations, inequalities, radical expressions, quadratic equations, and basic trig functions. To align with standardized assessments, some concepts of this course will be developed with the use of a graphing calculator. Students will have access to graphing calculators during class time and school hours and are encouraged to have one of their own to assist in the understanding of these concepts. Algebra I Part 1 and Algebra I Part 2 should be taken in the same school year and/or in consecutive semesters.

GEOMETRY - This course involves the application of inductive and deductive reasoning. These thought processes will be applied to basic terminology, segments and angles, properties of parallel and perpendicular lines, congruent and similar triangles, properties of special quadrilaterals, polygons, right triangles, properties of circles, and area and volume of geometric solids. Incorporated throughout these sections are formal geometric proofs. This material is essential for students to advance in mathematics.

CAREER MATH A - (Prerequisite: ILP, IEP, ELL, MTSS; Teacher approval or recommendation; Demonstrates below grade-level proficiency by most recent evaluation) This year long intervention class will build a bridge between conceptual math and applied math for students who are interested in the high school to career pathway. It will relay relevant concepts that will be useful in the workplace as well as everyday life, while at the same time model and maintain the Colorado Academic Content Standards for math. Topics to be covered in this course will include: problem solving, number sense, and computation skills, measurement systems, geometry, mathematical language and symbolism and algebraic methods.

CAREER MATH – This course will build a bridge between conceptual math and applied math for students who are interested in the high school to career pathway. It will relay relevant concepts that will be useful in the workplace as well as in everyday life, while at the same time model and maintain the Colorado Academic Content Standards for math. Topics to be covered in the course will include: problem solving, number sense and computation skills, measurement systems, geometry, mathematical language and symbolism, and algebraic methods.

TECHNICAL MATH – This class is designed for students who are on a non-4-year college degree pathway who will look to attain work immediately after high school or attend a vocational or trade school. Focus will be placed on the following: practical and application math dealing with specific topics that will be useful in a workplace or in life, carpentry and mechanical math tools, geometry topics that will be useful on a plumbing, electrical, welding or carpentry work site, units of measure and measurement conversions.

FINANCIAL MATH – This class covers topics that include pricing, taxes, insurance, interest, annuities, amortization, investments using financial calculators and spreadsheets. Students in the class will use proportion, base, and rate to solve financial math applications, interpret business expense accounts, apply mathematical calculations to various investment options, apply mathematical calculations to various loan types, apply mathematical calculations to various tax and payroll scenarios.

MATH FOR LIBERAL ARTS – Develops mathematical and problem-solving skills. Appropriate technological skills are included. Contents selected highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics, additional content will include one topic in geometry, numeration systems, decision theory, or management science. This course is one of the Statewide Guaranteed Transfer Courses, GT-MA1.

All of the following advanced level math courses require the student to have a graphing calculator. The math department recommends students have a TI-84 series calculator. Graphing calculators (a TI-84 Silver) are available to be rented from the CCHS Math Department on a semester basis for $25. Before purchasing a graphing calculator, please check with your instructor as some classes may allow online graphing utilities.

ALGEBRA II - This course reviews and extends the student's understanding of the sets of numbers, open sentences, equations and inequalities in one or two variables, systems of linear open sentences, expressions, relations and functions, rational numbers and functions, quadratic equations, irrational and complex numbers, variations, logarithmic and exponential functions, basic matrix algebra, and probability/statistics.

(H) COLLEGE ALGEBRA - This course focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and nonlinear systems, and an introduction to conic sections.

STATISTICS -This course will provide the student with a basic background in applied statistics. It is designed to address the needs not only of students who wish to pursue business or other technical careers, but also those who simply wish to apply their math knowledge to interesting practical problems in daily life. There are four broad conceptual themes covered including: a) exploring data through pattern analysis, b) sampling and experimentation, c) anticipating patterns through probability, and d) drawing statistical inference through estimation of population parameters.

(H) COLLEGE STATISTICS - Explores and applies data presentation and summarization, introduction to probability concepts and distributions, statistical inference --estimation, hypothesis testing, comparison of populations, correlation and regression.

(AP) STATISTICS - This non-calculus statistics course introduces 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 (describing patterns and departures from patterns), sampling and experimentation (planning and conducting a study), anticipating patterns (exploring random phenomena using probability and simulation), and statistical inference (estimating population parameters and testing hypotheses).

(AP) COMPUTER SCIENCE PRINCIPLES - This course offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

(AP) COMPUTER SCIENCE A - The class is an introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic

and formal methods. In addition, the responsible use of these systems is an integral part of the course. Students enrolled in this course will have some required summer course work. Please visit with instructor prior to the end of school to obtain the necessary instructions and materials.

(H) TRIGONOMETRY - This is an advanced level math course and is comparable to a trig course taught in colleges and universities as it has a college level text as its curriculum base. It is strongly recommended that a student have a "B" or better in previous courses due to the rigor and depth of the content and the required commitment of time and effort on the part of the student to be successful in this course. This course will cover the concepts of trigonometric functions, circular functions and their inverses, trigonometric identities and equations, solving triangles by application of law of sines and cosines, vectors and their applications, polar coordinates, complex numbers and conic sections.

(H) PRE-CALCULUS - This course focuses on preparing students for calculus. The main concepts covered are: linear equations and curve fitting, composite and power functions, polynomial and rational functions, exponential and logarithmic functions, vectors, systems of equations, sequences, induction, matrices, analytic geometry, and limits.

(AP) CALCULUS - AP Calculus is primarily concerned with developing the student's understanding of the concepts of calculus and providing experience with its methods and applications. It is designed for mathematically-able students who have a thorough understanding of elementary functions, analytic geometry and a strong background in algebra, geometry and trigonometry. Advanced Placement course work is comparable to college/university calculus courses. The course emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally.

SCIENCE

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Lab Course	Year	Credit	Recommended Prerequisite
Environmental Science			♦	9	1	
(H) Integrated Science 9	H		♦	9	1	District process
Biology			♦	9,10,11,12	1	Attempted Earth & Sky/Environmental Science
AP Biology	H, AP		♦	10,11,12	2	(H) Chemistry and 1 credit from Biology or (H) Integrated Science
Horticulture			♦	10,11,12	1	Attempted Environmental Science and Biology or (H) Integrated Science
(H) Systems Go – PAE	H		♦	9,10,11,12	1	
(H) Systems Go – Rocket Design I	H		♦	10,11,12	2	
(H) Systems Go – Rocket Design II	H		♦	11,12	2	(H) Systems Go – Rocket Design I
(H) Systems Go – PAE III	H		♦	12	2	(H) Systems Go – Rocket Design II
Physics	C	PHY 105	♦	10,11,12	1	Algebra I Part II and Geometry and 2 full credits in Science
AP Physics	H		♦	10,11,12	2	(H) Chemistry; Trigonometry
Chemistry	X		♦	10,11,12	1	2 credits from Earth & Sky/Environmental Science/Biology or 1 credit from (H) Integrated Science
(H) Chemistry	H, X, C	CHE 111	♦	10,11,12	1	Algebra II; 2 credits from Earth & Sky/Environmental Science/Biology or 1 credit from (H) Integrated Science

AP Chemistry	H, AP, C	CHE 111/112	♦	10,11,12	2	(H) Chemistry
Geology			♦	10,11,12	1	2 credits from Earth & Sky/Environmental Science/Biology or 1 credit from (H) Integrated Science
AP Environmental Science	H, AP		♦	10,11,12	2	English10 or (H) English 10; Biology or (H) Integrated Science, Algebra II
(H) Zoology	H		♦	10,11,12	1	1 credit from Biology or 1 credit from (H) Integrated Science, (H) Chemistry highly recommended.
(H) River Science I	H		♦	10,11,12	1	Environmental Science, Biology or (H) Integrated Science, and Algebra I part II
(H) River Science II	H		♦	10,11,12	1	Environmental Science, Biology or (H) Integrated Science, and Algebra I part II
(H) Principles of Biomedical Science	H		♦	10,11,12	1	Environmental Science, Biology or (H) Integrated Science

It is recommended that students complete one science credit each year in grades 9 and 10. Students may select a science class each semester during grades 11 and 12 if desired. Students in grades 9 and 10 may take two science credits in the same school year if they are strong science students and have counselor approval. Students who are admitted to a four-year college or university in Colorado are encouraged to take three years of natural science.

ENVIRONMENTAL SCIENCE - A required, semester-long, freshmen-level course that uses that uses concepts in ecology, geology, meteorology, biology, chemistry, engineering, and physics to study environmental problems and human impacts on the environment

(H) INTEGRATED SCIENCE 9 - This course will integrate themes of classification, energy, structures & functions and systems & interactions. It will incorporate both the standards taught in earth science and biology. It will give advanced freshmen the opportunity to complete these standards in a semester. This course provides rigor and relevance as both earth science and biology curriculum are combined.

BIOLOGY A- (Prerequisite: ILP, IEP, ELL, MTSS; Teacher approval or recommendation; Demonstrates below grade-level proficiency by most recent evaluation) Biology is designed for students who are interested in learning about living things. Students will be introduced to basic biological concepts. Characteristics of living things, basic biochemistry, cell biology, DNA, genetics, and classification are major components of the course. A field investigation will also be included in the course where major ecological principles will be explored.

BIOLOGY - Biology is designed for students who are interested in learning about living things. Students will be introduced to basic biological concepts. Characteristics of living things, basic biochemistry, cell biology, DNA, genetics, and classification are major components of the course. A field investigation will also be included in the course where major ecological principles will be explored.

(AP) BIOLOGY - This course is designed to be the equivalent of 2 semesters of college introductory biology usually taken by biology majors during their first year. AP Biology includes those topics regularly covered in a college biology course for majors or in the syllabus from a high-quality college program on introductory biology. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Students are expected to pay and take the Advancement Placement examination (approximate cost $85 per exam.) Students who sign up to take the AP test and decide not to test will be charged the current College Board required processing fee. Only students who take the AP exam will have 'AP' notated on their transcript for the course.

HORTICULTURE - An introduction course to basic horticulture. Students study horticultural techniques used in personal and professional cultivation practices, such as, aquaponics, hydroponics, soil cultivar methods. Course would access to food and agricultural business opportunities.

(H) SYSTEMS GO – PAE I – The first of four innovative hands-on high school science, technology, engineering and mathematics (STEM) course that uses project-based learning to stimulate 21st Century workplace skills in: design, development, testing, analysis, critical thinking, cognitive reasoning, problem solving, innovation. Curricula covers introductions to the R&D industry and innovation;

mechanical drafting/CAD for working drawings capture; and applied physics of main energy systems - mechanical, electrical, thermal, fluid - through design, build, and test projects.

(H) SYSTEMS GO – ROCKET DESIGN I – The second of four innovative hands-on high school science, technology, engineering and mathematics (STEM) course that uses project-based learning to stimulate 21st Century workplace skills in: design, development, testing, analysis, critical thinking, cognitive reasoning, problem solving, innovation. Curricula covers introductions to the R&D industry and innovation; mechanical drafting/CAD for working drawings capture; and applied physics of main energy systems - mechanical, electrical, thermal, fluid - through design, build, and test projects.

(H) SYSTEMS GO – ROCKET DESIGN II – The third of four innovative hands-on high school science, technology, engineering and mathematics (STEM) course that uses project-based learning to stimulate 21st Century workplace skills in: design, development, testing, analysis, critical thinking, cognitive reasoning, problem solving, innovation. Curricula covers introductions to the R&D industry and innovation; mechanical drafting/CAD for working drawings capture; and applied physics of main energy systems - mechanical, electrical, thermal, fluid - through design, build, and test projects.

(H) SYSTEMS GO – ROCKET DESIGN III – The final of four innovative hands-on high school science, technology, engineering and mathematics (STEM) course that uses project-based learning to stimulate 21st Century workplace skills in: design, development, testing, analysis, critical thinking, cognitive reasoning, problem solving, innovation. Curricula covers introductions to the R&D industry and innovation; mechanical drafting/CAD for working drawings capture; and applied physics of main energy systems - mechanical, electrical, thermal, fluid - through design, build, and test projects.

PHYSICS - This course introduces fundamental concepts of physics with emphasis on applications to the world around us. The course is concept-oriented and does not make extensive use of mathematics. Although the course does not satisfy the requirements of professional or engineering schools, it provides familiarity with basic principles prior to enrolling in other physics courses.

AP PHYSICS - This course is designed to acquaint students with the language and theories of physics with emphasis on laboratory work and problem solving. It is a rigorous, comprehensive study of energy, its properties, and relationships. A few of the major topics are Newtonian mechanics (motion, forces, work, and power) thermodynamics, optics and waves, and electricity. These concepts and others are reviewed through laboratory, lecture, guided practice, and audio-visual aids. This course uses a digital text and virtual labs as part of the course work. It is highly recommended for students pursuing engineering, science, or medical careers. Students are required to provide a scientific calculator.

CHEMISTRY - In this course, students will be presented with principles of chemistry through real-world community issues. Students will learn concepts on a need-to-know basis through themes such as water, energy, air, atoms, and food. The course is intended for college-bound students who are <u>not</u> planning to major in a science-related field. It will be lab-based and feature activities that give students practice in applying their knowledge of chemistry.

(H) CHEMISTRY - This course is designed to improve students' thinking skills and understanding of the strong relationship between mathematics and science. It is a rigorous, comprehensive study of matter, its properties, and relationships. Problem solving and laboratory activities are emphasized. The basic theories of chemistry, use of laboratory equipment, and metric measurement are stressed. A few of the major topics are atomic structure, periodic law, chemical bonding & nomenclature, states of matter, stoichiometry, acids & bases, and chemical equilibrium. These concepts and others are reviewed through laboratory, lecture, guided practice, and audio-visual aids. (H) Chemistry is a college preparatory course; it is highly recommended for students pursuing science, engineering, or medical careers. Students are required to provide a scientific calculator.

(AP) CHEMISTRY - This course is designed to give students greater depth in the theories of chemistry with emphasis on laboratory work. It is a rigorous, comprehensive study of matter, its properties, and relationships. A few of the major topics are nuclear chemistry, organic chemistry, electrochemistry, biochemistry, kinetics, thermodynamics, colligative properties, and solubility equilibria. This course has a significant amount of problem solving and is designed to prepare students to take the AP Chemistry exam. It is highly recommended for students pursuing engineering, science, or medical careers. Students are expected to pay and take the Advancement Placement examination (approximate cost $85 per exam.) Students who sign up to take the AP test and decide not to test will be charged the current College Board required processing fee. Only students who take the AP exam will have 'AP' notated on their transcript for the course. Students are required to provide a scientific calculator.

GEOLOGY - The spectacular eruption of a volcano, the terror wrought by an earthquake, the magnificent scenery of a mountain valley, and the destruction created by a landslide are all subjects covered in geology. Geology will expand upon the physical world where EARTH and SKY left off. The Cañon City area is rich in geologic events, history, and landforms. This class will explain local features by relating them to global events and history. Geology is designed for the student who shows an interest in the physical world and a curiosity as to why the world looks the way it does. Extensive use of field trips, labs, PowerPoints, and hands-on demonstrations are used to cover course material. Local resources will be used as references such as Tunnel Drive and Garden Park. Several walking trips to the Hogbacks and field trips to other local geologic areas provide outdoor, hands-on experiences in geology. Students need to be able to walk up to two miles.

AP ENVIRONMENTAL SCIENCE - The goal of the AP Environmental Science course is to provide the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Laboratory-based, this year-long course is 40% lab and 60% lecture. The rigor exceeds regular environmental science in both science terminology and concepts, English, and algebraic skills. Students will participate in a service-learning activity and will be encouraged to incorporate a capstone project for their experience.

(H) ZOOLOGY - An introductory course to unpack the different animals in the phylum Chordata and see how they compare to humans. This course will involve students learning through classroom study, labs, and outdoor interactions. Students should take this course if you are interested in Human Anatomy, Zoology, or Veterinary Medicine.

(H) RIVER SCIENCE I - An advanced, high school course studying the riparian and river ecosystems of the Arkansas River from a biological and conservation standpoint. This course will intensify the study of our watershed from a biological, ecological, engineering, historical and policy perspective.

(H) RIVER SCIENCE II - An advanced, high school course studying the riparian and river ecosystems of the Arkansas River from a biological and conservation standpoint. This course will intensify the study of our watershed from a biological, ecological, engineering, historical and policy perspective.

(H) PRINCIPLES OF BIOMEDICAL SCIENCE – A Project Lead the Way curriculum.

SOCIAL STUDIES

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
World Geography			9	.5	
World History			10,11,12	1	
AP European History	H, AP		10,11,12	1	Teacher Approval
Colorado History	X		10,11,12	1	Does not replace U.S. History
(H) Colorado History	H, C, X	HIS 225	11,12	1	Teacher Approval
Economics	X		10,11,12	1	
International Relations			10,11,12	1	
U.S. History	X		11,12	1	
(H) U.S. History	H, C, X	HIS 122	11,12	1	Teacher Approval
Psychology	C, X	PSY 101	11,12	1	
AP Psychology	H, AP, C	PSY 101	11,12	1	
AP Art History	H, AP		11,12	2	
American Government			12	1	

WORLD GEOGRAPHY A – (Prerequisite: ILP, IEP, ELL, MTSS; Teacher approval or recommendation; Demonstrates below grade-level proficiency by most recent evaluation) Geography is a course about the earth and the relationships and distribution of its people and resources. Basic concepts of geography and the use of essential tools and skills will be introduced. The interaction between humans and the physical environment will be emphasized for the regions of the USA, Canada, Latin America, Europe, Northern Eurasia, Africa, Middle East, Asia and Oceania. Global perspectives and problems will be studied through cultural, economic, historic, political and urban geography.

WORLD GEOGRAPHY – Geography is a course about the earth and the relationships and distribution of its people and resources. Basic concepts of geography and the use of essential tools and skills will be introduced. The interaction between humans and the physical environment will be emphasized for the regions of the USA, Canada, Latin America, Europe, Northern Eurasia, Africa, Middle East, Asia and Oceania. Global perspectives and problems will be studied through cultural, economic, historic, political and urban geography.

WORLD HISTORY - This class studies the history of mankind and the human impact on the world. The course traces mankind's journey through ancient civilizations to the modern world and helps students create solutions to today's issues through a better understanding of the past.

AP EUROPEAN HISTORY – This class will provide academically talented students an enriched learning experience beyond what is offered in the regular world history course. Comprehensive in scope and with greater detail, the course begins with a review of ancient civilizations, then moves through the emergence of nation-states and major intellectual movements, and concludes with the creation of the modern world.

COLORADO HISTORY - Students in this elective history course will use primary and secondary documents to unfold the story of the Centennial State including its earliest Native Americans, the Spanish explorers and settlers, the mountain men and gold rush participants, the railroad age, the diverse agricultural interests, the importance of tourism, and the future needs and challenges.

(H) COLORADO HISTORY - This college-level course presents the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. Throughout the course, students will use primary and secondary source material to investigate the history of Cañon City and Fremont County and determine how our local history was affected by state and national movements and events. This course uses a college-level text.

ECONOMICS - The course relates history and politics to the study of economics. Students are provided a greater understanding of the individual consumer or small business owner to the global economy. The course will study the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, and inflation and deflation cycles.

INTERNATIONAL RELATIONS - This course is designed to provide students with an understanding of the foundations and theories underlying international relations in the 21st Century. Major topics include diplomacy, globalization, international intervention, global security and what it means and takes to be a global citizen in the 21st century.

U.S. HISTORY - Students will study major eras of 20th and 21st century American history such as WWI, WWII, the Cold War era, and recent history, depending on each year's focus and theme.

U.S. HISTORY A - (Prerequisite: ILP, IEP, ELL, MTSS; Teacher approval or recommendation; Demonstrates below grade-level proficiency by most recent evaluation) This course will allow students to build and strengthen their reading fluency and comprehension skills, analyzing skills, and decoding skills. Students will study major eras of 20th and 21st century American History such as WWI, WWII, the Cold war era and recent history, depending on each year's focus and theme.

(H) U.S. HISTORY - This college-level course explores events, trends, peoples, groups, cultures, ideas and institutions in United States history including the multiple perspectives of gender, class and ethnicity between the period of the American Civil War and the present. It focuses on developing, practicing and strengthening the skills historians use while constructing knowledge in the discipline.

PSYCHOLOGY - The scientific study of behavior including motivation, emotion, physiology, psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory.

AP PSYCHOLOGY - The primary goal of this course is to increase the understanding of psychology, its methods, theory, and research, with the objective that each student pass the AP Psychology Exam. All concepts outlined in the Advanced Placement Psychology Course Description will be covered. Concepts include scientific foundations of psychology, biological bases of behavior, sensation, perception, learning, cognitive psychology, developmental psychology, motivation, emotion, personality, clinical psychology, and social psychology.

(AP) ART HISTORY - This is a college level survey course of art history from cave paintings to the 21st Century. The focus of study is on painting, sculpture and architecture. Slides, lectures, films, and a visit to the Denver Art Museum are part of this course. Participants are expected to take the AP Art History examination in May.

AMERICAN GOVERNMENT - This course presents a study of the United States governmental system in terms of function, history, and philosophy with additional emphasis placed on civic responsibility, political parties, individual rights, comparative political systems, economics, and personal finance literacy.

CAREER AND TECHNICAL EDUCATION (CTE)

BUSINESS EDUCATION

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Business Applications			9,10,11,12	.5	Required Freshman course; must take before enrolling in any business computer course
Personal Finance	X		9,10,11,12	.5	
Capstone	C	AAA 109	12	.5	
Computer Applications II	C, X	CIS 118	10,11,12	1	Business Applications
(H) Computer Applications III - Word	H, C	CIS 131	11,12	.5	Computer Applications II
(H) Computer Applications III - Excel	H, C	CIS 151	11,12	.5	Computer Applications II
(H) Computer Applications IV - Excel	H, C	CIS 155	11,12	1	Passed licensing exam in Computer Applications III - Excel
Digital Graphic Design	X		10,11,12	1	Business Applications
(H) Digital Graphic Design II	H, X		11,12	1	Digital Graphic Design
Web Design I	C	CWB 130	10,11,12	1	Business Applications
Business Management & Law	C	BUS 216	10,11,12	1	
Tiger Paws Marketing & Advertising	X		10,11,12	1	Passed Computer Applications II, Digital Graphic Design or Web Media Design
Intro to Game Design			11,12	1	Business Applications
(H) Advanced Game Design	H, X		11,12	1	Intro to Game Design
Computer Information Systems	C	CIS 115	10,11,12	1	Business Applications
Social Media Marketing			11,12	1	Business Applications
Accounting I	C, X	ACC 121	10,11,12	1	Course fee applicable
(H) Accounting II	H, C, X	ACC 122	11,12	1	Accounting I; course fee applicable
Intro to Project Management			11, 12	1	Business Applications
A+ I - Hardware			10,11,12	1	Business Applications
A+ II - Software			10,11,12	1	Business Applications; A+ I - Hardware
A+ Hardware Repair			10,11,12	1	Business Applications
Network +; Networking Fundamentals I	C	CNG 101	10,11,12	1	A+ I - Hardware and A+ II - Software
Network +; Networking Fundamentals II	C	CNG 101	10,11,12	1	A+ I - Hardware and A+ II - Software; Network + Networking Fundamentals I
Journalism Yearbook	X		10,11,12	2	Teacher approval
(H) Journalism Yearbook	X		12	2	English 10/(H) English 10 with teacher recommendations **&** application for seniors only.
PaICE (Professional and Internship Community Experience) – Work Study			11,12	.5	juniors or seniors ONLY

			11,12	1	juniors or seniors ONLY
PaICE (Professional and Internship Community Experience) – Internship					

Course fees may be applicable for software subscription services.

BUSINESS APPLICATIONS - Gain real world experience with some of the most widely used business applications. Learn personal finance and business concepts through use of Microsoft Office and Google Apps.

PERSONAL FINANCE - Apply real-life personal business tasks with budgeting, credit cards, investing, savings and other money management tools.

CAPSTONE – Students will prepare for and schedule their Capstone final evaluation and complete the remaining items in their Capstone Graduation Portfolio. The grade in this class is directly related to the outcome of the Capstone final evaluation. It will either be a "Fail," "Pass," or "Pass with Honors credit."

COMPUTER APPLICATIONS II - Learn basic computer concepts and advanced features while developing proficiency in Microsoft Office.

(H) COMPUTER APPLICATIONS III - WORD - Prepare for the Microsoft Office Specialist certification in Word through coursework, projects and simulations.

(H) COMPUTER APPLICATIONS III - EXCEL - Prepare for the Microsoft Office Specialist certification in Excel through coursework, projects and simulations.

(H) COMPUTER APPLICATIONS IV - EXCEL EXPERT - Prepare for the Microsoft Office Specialist Expert certification in Excel through coursework, projects and simulations.

DIGITAL GRAPHIC DESIGN - Learn to use the computer to create designs in Adobe Photoshop and Adobe Illustrator. Show off your creativity through these graphic design tools.

(H) DIGITAL GRAPHIC DESIGN II - Prepare for the Adobe Certified Associate license in Photoshop or Illustrator through coursework, projects and simulations.

WEB DESIGN - Learn the basics of Web Design and HTML while implementing your own custom text, graphics, animation, sound and videos.

BUSINESS MANAGEMENT AND LAW - Gain critical knowledge about your rights and responsibilities within our legal environment. Learn how to start your own business and what responsibilities you will have as a business owner.

TIGER PAWS MARKETING & ADVERTISING STUDIO - Tiger Paws Marketing and Advertising Studio is a small non-profit desktop publishing enterprise that utilizes graphic design and multimedia for customer projects.

INTRO TO GAME DESIGN - Take on the role of game designer, creative director, graphic designer, and game tester in planning, assembling, and marketing a video game using the tools learned throughout the course.

(H) ADVANCED GAME DESIGN – Students will expand upon their foundation established in Intro to Game Design where they will build their own world through asset creation, texture building and 3D rendering.

COMPUTER INFORMATION SYSTEMS – Students will learn how to plan, purchase and set-up technology in professional settings.

SOCIAL MEDIA MARKETING - Social media is at the forefront of your culture. Use these tools for free advertising and capitalize on user created content as essential components in today's digital marketplace.

ACCOUNTING I – Every person and business has to keep records of their daily activities. Apply accounting concepts with real job situations through automated software and simulations.

(H) ACCOUNTING II - Expand on your knowledge in Accounting I and prepare yourself for college and a professional job in accounting. Prepare for the QuickBooks Certified User licensing.

INTRO TO PROJECT MANAGEMENT - Students will learn the process of production in manufacturing, construction, and other related business models from concept to delivery of the product. Concepts covered include: planning, problem solving, timelines, communication, budgeting, contract labor, warranty of work performed and analysis of costs/performance.

A+ I - HARDWARE – Students will gain experience installing, managing, repairing and troubleshooting PC hardware. Students taking this course and A+ II - Software have the opportunity to become CompTIA A+ certified professionals and be able to troubleshoot and problem solve core service and support computer challenges while applying best practices for documentation, change management and scripting.

A+ II - SOFTWARE - Students will gain experience installing, managing, repairing and troubleshooting operating systems and PC software. Students taking this course and A+ I - Network have the opportunity to become CompTIA A+ certified professionals and be able to troubleshoot and problem solve core service and support computer challenges while applying best practices for documentation, change management and scripting.

A+ COMPUTER REPAIR - Students will gain experience installing, managing, repairing and troubleshooting District Chromebooks. Students taking this course will strictly work on the repair aspect of the Chromebooks with only an introductory review of the CompTIA A+ standards and processes.   The environment will mirror that of a Technology business with duties assigned for product order, work process management, repair and customer service.

NETWORK +; NETWORKING FUNDAMENTALS I – Students will learn real world skills in the rapidly growing career fields of Networking and Cybersecurity where they will build their own network and be a part of the future.

NETWORK +; NETWORKING FUNDAMENTALS II – Students will continue learning real-world skills in the rapidly growing career fields of Networking and Cybersecurity where they will build their own network and be a part of the future.

JOURNALISM YEARBOOK – This course is centered around the production of the school yearbook. It covers the basic aspects of design, layout and photography, but its emphasis is on writing. The course also requires skills such as developing story ideas, interviewing, and proofreading. Students are expected to have mastery of basic writing skills and learn the technical style of journalistic writing.

(H) JOURNALISM YEARBOOK – This course is the honors version of Journalism Yearbook. Leadership roles must be successfully completed in order to earn the honors credit. Students are expected to help teach the basic aspects of design, layout, photography, and journalistic writing. The course also requires skills such as developing story ideas, interviewing, and proofreading for others.

PROFESSIONAL AND INTERNSHIP COMMUNITY EXPERIENCE (PaICE) Work Study and Internship - Participate in an internship and earn a scholarship or work for pay as a working student and earn credit! This cooperative work-based learning program gives students a chance to gain first-hand experience in a career interest area and gain confidence in their abilities. Students may set up their schedule for PaICE in a variety of ways. Ultimately, students earn credit for working, gain skills and experience, and learn how to balance school and work! Students may enter PaICE at the start of any quarter.

Business Technology Licenses

The Business Technology Department offers the following areas of industry standard licensing which students can earn by enrolling in the following business courses and successfully completing licensing exams:

Required Course: Computer Applications/Business Applications **Recommended Courses:** Personal Finance, Career and College Prep		
Licensed Expert: Adobe Digital Graphic Design (H) Digital Graphic Design II	**Licensed Expert: Microsoft Office** Computer Applications II (H) Computer Applications III (H) Computer Applications IV	**Licensed Expert: QuickBooks** Accounting I (H) Accounting II
Small Business Management Business Management and Law Personal Finance Project Management	**Unity Certified User** Intro to Game Design Advanced Game Design	**CompTia A+ Certification** A+ I - Hardware A+ II - Software
CompTia Network + Certification Network +; Networking Fundamentals I Network +; Networking Fundamentals II		

FAMILY AND CONSUMER SCIENCE

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Clothing & Fashion Design			9,10,11,12	1	Course fee applicable
Relationships			10,11,12	1	
Child Development	C	PSY 238	10,11,12	1	
Human Growth & Development	C	PSY 235	11,12	1	
Culinary Nutrition			9,10,11,12	1	Course fee applicable
Culinary Arts			9,10,11,12	1	Course fee applicable
ProStart I		CUA 101 HOS 105	10,11,12	1	Culinary Nutrition and Culinary Arts; application approval; sophomores, juniors & seniors only; course fee applicable
ProStart II		CUA 101 HOS 105	11,12	1	ProStart I; Culinary Nutrition and/or Culinary Arts; application approval; juniors & seniors only; course fee applicable
(H) Teacher Cadet I	H, C	EDU 221	11,12	1	Juniors or seniors only; application approval
(H) Teacher Cadet II	H, C	EDU 221	12	1	Teacher Cadet I; seniors only; application approval
Graduate Life Skills			11, 12	1	

CLOTHING AND FASHION DESIGN – This course is designed for students who have an interest in the fashion industry and a desire to learn to sew. The course will explore the principles and elements of design as well as fashion trends, history of fashion and fashion designers. We will also be constructing projects that will introduce you to the basic elements of sewing. Students will be responsible for the cost of their chosen fabric (which can run up to $60 depending on the project chosen by the student), they will also have to pay a $20 deposit for a box of sewing supplies, along with a general lab fee of $10.

RELATIONSHIPS – If you are interested in a career as a psychologist, social worker, or therapist this course will help you achieve that goal. Our relationships have a huge impact on our lives. In order to have successful relationships, many important skills are needed.

Relationships is a course designed for those interested in learning about effective strategies for improving interpersonal relationship skills within friendships, opposite sex relationships, and family relationships. Some of the topics include: self-concept, values, stress management, depression, communication, decision-making, compatibility factors, love, marital readiness, and dealing with family and individual crisis.

CHILD DEVELOPMENT – Covers the growth and development of the child from conception through the elementary school years. This course emphasizes physical, cognitive, language, social and emotional domains of development as they pertain to the concept of the whole child. It also includes ways adults can provide a supportive early childhood and educational environment through teamwork and collaboration.

HUMAN GROWTH & DEVELOPMENT – Examines human development from conception through death, emphasizing physical, cognitive, emotional and psychosocial factors.

CULINARY ARTS – This course is for the student with an interest in the food industry. The focus of this course includes food safety and sanitation practices, introduction to industry equipment and practicing in a commercial kitchen. You will learn food preparation techniques and basic culinary skills which will give you an opportunity to carry-out catering jobs and hone your teamwork, communication, and customer service skills. Students will also have the opportunity to earn a ServSafe Food Handler certificate. Students will be responsible to pay a lab fee ($25) to cover the cost of the food.

CULINARY NUTRITION - This course develops a lifelong understanding of health and nutrition food preparation techniques utilizing various resources and skills. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient-dense food, nutrition in the life cycle and practicing wise consumer decisions. Students will be responsible to pay a lab fee ($25) to cover the cost of the food prepared during lab time.

PROSTART I –This course is a school-to-career program sponsored by the National Restaurant Association. It provides training in the hospitality and foodservice industry and is specifically designed for those students with a serious desire to make a career in the industry. Opportunities to work with experts, experience paid internships, and earn college credit and scholarships will be explored. At the end of the 2-year program, students may elect to sit for the National Restaurant Association Exam. Because of the hands-on nature of this class, consistent attendance is necessary for success. Students will be responsible to pay a lab fee ($50).

PROSTART II – This course is a continuation of the ProStart I course sponsored by the National Restaurant Association. The course builds on the ProStart 1 course and provides more in-depth training and experience in the hospitality and restaurant industry. Opportunities to work with experts, experience paid internships, and earn college credit and scholarships are an integral part of this course. At the end of the 2-year program, students may elect to sit for the National Restaurant Association Exam. Because of the hands-on nature of this class, consistent attendance is necessary for success. Students will be responsible to pay a lab fee ($50).

(H) TEACHER CADET I –The Teacher Cadet Program is an innovative approach designed to attract talented young people to the teaching profession through a challenging introduction to teaching. The program seeks to provide high school students insight into the nature of teaching, the problems of schooling, and the critical issues affecting the quality of education in America's schools. Colorado Teacher Cadets who successfully complete the full-year program are eligible to apply for college credit and field experience hour credits with several Colorado colleges. Students interested in becoming Teacher Cadets their junior or senior year need to complete an application process and meet minimum 3.0 grade requirement to be accepted into the program. It is highly recommended that students take child development and psychology before participating in this program.

(H) TEACHER CADET II - Teacher Cadet II is designed to provide additional field experience for those students who have completed the Honors Teacher Cadet course. For students who know they want to enter the education profession, this field experience will enhance their understanding of classroom instruction and the challenges facing education today. The field experience will include a minimum of 100 hours each semester of field contact time working with a mentor/clinical teacher plus 10 hours of seminar time at CCHS with the Teacher Cadet instructor. Field experience placement will consist of one site. These experiences will be documented in a culminating portfolio.

GRADUATE LIFE SKILLS – A survey of skills to become a successful adult, including changing a tire, managing your money, doing taxes, cooking, borrowing money, etc.

ARMY JUNIOR ROTC LEADERSHIP EDUCATION TRAINING (AJROTC) PROGRAM

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
AJROTC I			9,10,11,12	1	
AJROTC II			9,10,11,12	1	AJROTC I
AJROTC III			10,11,12	1	AJROTC II
AJROTC IV			10,11,12	1	AJROTC III
AJROTC V			11,12	1	Top 15% of AJROTC IV class with a leadership grade of 85% or higher; instructor recommendation
AJROTC VI			11,12	1	Top 15% of AJROTC V class with a leadership grade of 85% or higher; instructor recommendation
AJROTC VII			12	1	Top 15% of AJROTC VI class with a leadership grade of 85% or higher; instructor recommendation
AJROTC VIII			12	1	Top 15% of AJROTC VII class with a leadership grade of 85% or higher; instructor recommendation
AJROTC Specials – Air Rifle Marksmanship			9,10,11,12	.5	
AJROTC Specials – Color Guard/Drill Team			9,10,11,12	.5	
AJROTC Specials - RAIDERS			9,10,11,12	.5	

AJROTC is not a recruiting tool for the military or Senior ROTC.

This AJROTC Program is designed to teach high school students the value of citizenship, leadership, service to community, personal responsibility, and a sense of accomplishment while instilling in them self-esteem, teamwork, and self-discipline. Its focus is reflected in its mission statement, **"To motivate young people to be better citizens."** It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. The program is a stimulus for promoting graduation from high school, and it provides rewarding opportunities that will benefit the student, community, and nation. The AJROTC program is a cooperative effort on the part of the Department of the Army and Cañon City High School.

Satisfactory completion of the program can lead to advanced placement credit in the Senior ROTC program or advanced rank in the Armed Forces. AJROTC affords leadership opportunities for students who plan to go to college. Our goal is to produce successful and productive adults. An organized and disciplined learning environment is AJROTC's contribution to society. Community service and self-respect are cornerstones of the AJROTC curriculum. Students will wear uniforms and follow specific grooming requirements.

AJROTC I - In this 18-week course, AJROTC I cadets learn the history, purpose and objectives of the AJROTC program. Cadets receive instruction in citizenship, drill and ceremonies, rank and structure, personal appearance and Army uniforms, leadership theory, self-awareness and learning styles, communication skills, and conflict resolution. Emphasis is placed on self-evaluation, goal setting, teamwork, organization, and life skills development. This course is a prerequisite for AJROTC II.

AJROTC II - This 18-week course is designed to increase the cadet's leadership ability through study and practical leadership experience. His/her ability to communicate through oral presentations will be tested. The cadet's proficiency in drill and ceremonies as a leader and follower will be increased. The cadet's knowledge of safety standards and marksmanship abilities will be improved along with a general understanding of battalion organization, staff functions and leadership theory.

AJROTC III - In this 18-week course, AJROTC III cadets increase leadership abilities through practical experience as cadet non-commissioned officers through courses such as techniques of leadership, drill and ceremonies, service learning, and applied methods of instruction. AJROTC III cadets hold the majority of a squad leader, assistant squad leader, and some platoon leadership positions and are heavily involved in the operation of the company.

AJROTC IV - In this 18-week course, AJROTC IV cadets use a self-taught, self-paced method of learning using a programmed text which contains case studies, vignettes and practical exercises. AJROTC IV cadets hold the majority of the platoon and some company leadership positions and are heavily involved in the daily operation of the cadet company.

AJROTC V - In this 18-week course, AJROTC V cadets increase their leadership abilities through practical experience as cadet commissioned officers and senior noncommissioned officers through courses such as techniques of leadership, drill and ceremonies, service learning projects, and applied methods of instruction. AJROTC V cadets hold the majority of the company and some of the battalion junior leadership positions and are heavily involved in the daily operation of the Cadet Company and battalion.

AJROTC VI - In this 18-week course, AJROTC VI cadets increase their leadership abilities through practical experience as cadet commissioned officers and senior noncommissioned officers through courses such as techniques of leadership, drill and ceremonies, service learning projects, and applied methods of instruction. AJROTC VI cadets hold the majority of the battalion staff positions and are heavily involved in the daily operation of the cadet battalion.

AJROTC VII / VIII - In this 18-week course, the primary emphasis in these AJROTC levels is placed on the practical application of the cadet's acquired leadership and organizational skills as instructional aides in all AJROTC courses. Therefore, the semester is structured to allow cadets to perform their assigned command and staff duties and assistant instructor duties within the total range of the AJROTC program. AJROTC VII and VIII cadets are facilitators for the service learning projects. They are required to complete a journal, write a senior paper, and report on service learning activities. AJROTC VII-VIII cadets hold battalion leadership positions and are heavily involved in the operation of the battalion.

AJROTC   SPECIALS

These are quarter-long courses designed to improve the knowledge and performance of those students who are interested in joining the AJROTC Drill and Rifle Teams. These classes may be taken as many times as desired by a student.

AIR RIFLE MARKSMANSHIP - Air rifle marksmanship training is provided as part of the AJROTC Specials Block. It's a three-part program that combines a basic marksmanship safety course, marksmanship training, and air rifle competition. Students participating in the AJROTC Specials Block must be enrolled in regular AJROTC class for at least one semester per academic year. The air rifle marksmanship portion of the AJROTC Specials Block is provided at no cost to the student. Cañon City High School will provide quality air rifles and all associated equipment related to the sport of 3-position air rifle shooting. Students may try out for the competitive air rifle team each fall, with a maximum of 12 shooters on the team – an extracurricular course fee will be assessed.

COLOR GUARD / DRILL TEAM – The AJROTC Color Guard is one of the most important functions of a AJROTC unit. It represents the AJROTC program and the U.S. Army to the general public. It is an honor and a privilege to be on the AJROTC Color Guard. *Students must be enrolled and participating in at least one full semester of AJROTC to be a member.* Cañon City High School Army AJROTC will always have, at a minimum, two Color Guards that are active at any given time. Color Guards are composed of a minimum of two (2) flag bearers and two (2) rifle-carrying guards. There will be special occasions when the Color Guard will utilize sabers and form what is known as the "Saber Arches". Examples of these special occasions are when the homecoming court is announced or during high school graduation ceremonies. The AJROTC Drill Team is a precision drill platoon with the primary mission of showcasing the skills of select AJROTC Cadets through precise and dynamic routines, both with and without weapons. *Students must be enrolled and participating in at least one full semester of AJROTC to be a member.* Cadets who choose to participate on the drill team can expect to practice a lot; the rigors of training will never stop because the drill team is expected to execute their complicated routines as close to perfection as possible. The Drill Team consists of a Commander and 9-15 additional members. The Drill Team Cadets and their performances are one of the finest examples of what dedicated training and teamwork produces in today's AJROTC program. Both the competition Color Guard and Drill Team have the opportunity to compete against other schools and showcase their skills and dedication. In doing so, competitors can earn their varsity letter just as in any other high school athletic program. Both the Color Guard and Drill Team can assist students by:

- providing disciplinary training through instilling habits of precision and automatic response to simple commands and orders.
- increasing the confidence of young leaders through the exercise of command.
- building morale by developing team spirit and unit pride.

These teams also promote development of several core abilities, to include critical thinking and decision making; a capacity for life-long learning; communication; responsibility for decisions, actions, and choices; good citizenship; respectful treatment of others; and respectful treatment of property. Interested? Want to be part of the team? Come out and see if you have what it takes to be part of the Color Guard or Drill Team.

RAIDERS - Raiders training is provided as part of the AJROTC Specials Block. The Raider course will focus on physical fitness, team work, land navigation, first aid, knot tying, health and nutrition. Students participating in the AJROTC Specials Block must be enrolled in a regular AJROTC class for at least one semester per academic year. The Raiders class portion of the AJROTC Specials Block is provided at no cost to the student. Cañon City High School will provide all associated equipment related to training and fitness. Students may try out for the Raider team – an extracurricular course fee will be assessed.

PUEBLO COMMUNITY COLLEGE (PCC)

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Intro to Auto Technology	C	ASE 102, 120	10,11,12	.5	Safety glasses required
Auto Technology I	C	ASE 110, 111, 210, 264, 281, 140, 141, 240, 265	11,12	4	Instructor approval; Intro to Auto Technology; safety glasses required
Auto Technology II	C	ASE 123, 130, 132, 282, 161, 162, 260, 282	12	4	Instructor approval; Successfully complete Auto I; safety glasses required
Auto Technology Internship	C	ASE 282	12	1	Successfully complete Auto I and concurrently enrolled in Auto II; Coordinated by PCC Instructor **and** CCHS PaICE Coordinator
Human Nutrition and Health	C	HWE 100	10,11,12	.5	
Medical Terminology	C	HPR 139	10,11,12	.5	
Certified Nurse Aide (CNA)	C	NUA 101, 102, 170, 171	11,12	1	Biology or (H) Integrated Science; Suggested Human Nutrition and Health AND Medical Terminology; course fee applicable
Emergency Medical Technician (EMT)	C	EMS 121/122/123/124/170	12	4	18 years of age; All current immunizations, Pass a background check and a drug screen; CPR Certified
Welding 102	C	WEL 102	10,11,12	1	
Welding 103	C	WEL 103	10,11,12	1	Welding 102; instructor approval
Welding 104	C	WEL 104	11,12	1	Welding 103; instructor approval
Welding 106	C	WEL 106	11,12	1	Welding 104; instructor approval
Welding 250	C	WEL 250	11,12	1	Welding 104; instructor approval
Intro to Fire Science	C	FST 102/103/109	10,11,12	1	
Intro to Criminal Justice	C	CRJ 110	10,11,12	1	"C" or better in American Literature & Argument or AP Language and Composition (ENG 121); Preference given to juniors and seniors
Introduction to Early Childhood Education	C	ECE 101	10,11,12	.5	

Introduction to Early Childhood Lab Techniques	C	ECE 102	10,11,12	.5	
Guidance Strategies for Young Children	C	ECE 103	10,11,12	.5	
Infant and Toddler Theory and Practice	C	ECE 111	10,11,12	.5	
Early Childhood Education Child Growth and Development	C	ECE 238	10,11,12	.5	

Students will be responsible for purchasing their own materials. Take home project costs usually range from $10-$50, depending upon the project the student chooses to complete.

INTRODUCTION TO AUTOMOTIVE TECHNOLOGY - This is a preparatory class for Automotive Technology I and II. Basic instruction in shop safety, tool and equipment use, and electrical and different vehicle systems will be provided. Throughout the length of this quarter-long course, students will be involved in classroom discussion and hands-on shop time to work on vehicles' basic systems. Students will earn at least two industry certifications and four (4) college credits upon completion. *Students are to provide their own safety glasses.*

AUTO TECHNOLOGY I - This course is an in-depth study of the automobile, its systems, and repair procedures used in the automobile service industry. Systems covered are brakes, steering, suspension, electrical and HVAC. The student will complete their first internship in the second semester. This unpaid internship requires 45 contact hours with the employer and instructor. This course focuses on the principles of general vehicle maintenance. Students will learn how to perform service checks and make the necessary corrections and preventative actions. Students will be required to complete Level 1 of industry sponsored Subaru-University by the end of semester 2 and "Snap-On 504 Multi-meter" certification. They will work on mock-up vehicles. Students will earn at least two industry certifications and eighteen (18) college credits upon completion. *Students are to provide their own safety glasses.*

AUTO TECHNOLOGY II - This course focuses on basic and advanced automotive diagnosis and repair in areas such as engine, ignition systems, starting and charging system and the electrical system. Students will be required to complete Level 2 of industry sponsored Subaru-University by the end of semester 2, "Snap-On 504 Multi-meter" and "Snap-on Verus Pro" certification. Tasks will be performed on mock-up vehicles. Upon completion of the program, students should have job entry skills for employment in the automotive industry. *Students are to provide their own safety glasses.*

AUTO TECHNOLOGY INTERNSHIP (ASE 282) – This course emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student will take all related sponsor requirements in Service Training Standards (STS) or others as required by the program track. This unpaid internship requires 45 contact hours with the employer and instructor. Students will earn at least two industry certifications and fifteen (15) college credits upon completion. *Students are to provide their own safety glasses.*

HUMAN NUTRITION AND HEALTH – This course introduces the basic principles of nutrition with an emphasis on personal nutrition. Students in this course will study health and fitness in the US today looking at personal health issues, managing stress, nutrition and health lifestyles.

MEDICAL TERMINOLOGY – This course introduces the student to the structure of medical terms with emphasis on using and combining the most common prefixes, roots and suffixes. Includes terms related to major body systems, oncology and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in the healthcare setting.

CERTIFIED NURSE AIDE HEALTH CARE SKILLS (CNA) – This course prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, restorative services, personal care skills, and safety and emergency care issues are covered in theory and lab. For successful completion of the Certified Nursing Program students must complete 40 clinical hours in a patient care setting in addition to their class time. This course requires a mandatory parent, student, and instructor meeting prior to classes beginning.

EMERGENCY MEDICAL TECHNICIAN (EMT) – CCHS is offering the opportunity to take an 18-credit hour Emergency Medical Technician certification curriculum with Pueblo Community College-Fremont Campus to qualified and committed students. The EMS program prepares you for a career in the pre-hospital health care field as an EMT. Career opportunities include ambulance service, fire service, tactical EMS, critical care transport, and emergency department technician. **Program Entrance Requirements:** To enroll in all EMS programs, you must be at least 18 years of age, have all current immunizations, pass a background check and a drug screen and be able to meet the requirements of the Functional EMS Job Description. This course will be taught entirely on the PCC-F campus and primarily in the evenings, so self-transportation is required. **Prerequisite Courses for Program Admission:** Student must have a current Health Care Professional CPR card, successful completion of English 10, and qualifying placement scores. See your counselor to see if you qualify.

WELDING 102 - Introduces safety inspections, minor repairs, operating parameters, oxyacetylene welding equipment, and oxyacetylene welding. Blueprint reading skills will be practiced in this course. The students will weld in the 1G (Flat) position only using E6010, E6013& E7018 electrodes. The students will also learn how to weld open roots, a pipe welding technique.

WELDING 103 - Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E6010 & E7018 electrodes. Layout procedures and practices will be used during this course. The students will weld in the 2G (Horizontal) and 3G (Vertical) positions. The students will also do open roots in the 2G & 3G positions. The students will also learn advanced weld symbols.

WELDING 104 - Covers performing advanced safety operations & inspections, making major repairs, adjusting operating parameters, and operating SMAW equipment using the E6010 & E7018 electrodes. The students will weld in the 2G, 3G & 4G (overhead) positions. The students will also weld open roots in the 2G, 3G & 4G positions. Advanced blueprint reading & weld symbols will be utilized in this class. Upon completion of the Welding 102, Welding 103 & Welding 104 classes the students will earn a certificate (Structural Welding Introduction).

WELDING 106 – Covers interpreting weld symbols on blueprints, identifying proper layout methods and tools, and proper joint design necessary for various welding processes.

WELDING 250 - Develops welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout projects. The students will be assigned four (4) projects to complete.

FIRE SCIENCE – This course introduces the fire service organization and operation from past to present operations. The course also includes operation and organization of federal, state, local and private protection forces. It also emphasizes extinguishing methods and equipment, special extinguishing agents, and special hazard considerations. The class also focuses on on-scene and on-the-job firefighter health, safety and fitness, the safety officer, mental well-being, stress management, and standards related to health, safety and fitness. Firefighting strategy and tactics, methods of fire attack, fire behavior, building construction, and pre-fire planning will be discussed. Pueblo Community College instructors will teach this class at Cañon City High School.

INTRO TO CRIMINAL JUSTICE – Introduces students to the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives and views of crime, theory, and law, are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies and current criminal justice issues are examined. This course will be taught on the PCC campus.

INTRODUCTION TO EARLY CHILDHOOD EDUCATION (ECE 101) - This course provides an introduction to the profession of Early Childhood Education (ECE). Course content includes eight key areas of professional knowledge related to working with young children and their families in early care and education settings - child growth and development; health, nutrition and safety; developmentally appropriate practices; guidance; family and community relationships; diversity and inclusion; professionalism; and administration and supervision. This course addresses children ages birth through 8 years. (ECE 101; 0.5 credits)

INTRODUCTION TO EARLY CHILDHOOD LAB TECHNIQUES (ECE 102) - This course focuses on a classroom Seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, practice appropriate interactions and develop effective guidance and management techniques. Addresses ages birth through 8 years. (ECE 102; 0.5 credits)

GUIDANCE STRATEGIES FOR YOUNG CHILDREN (ECE 103) - Explores guidance theories, applications, goals and techniques, as well as factors that influence behavioral expectations of children. This course includes classroom management and pro-social skills development of young children in early childhood (EC) program settings. This course addresses children ages birth through 8 years. (ECE 103; 0.5 credits)

INFANT AND TODDLER THEORY AND PRACTICE (ECE 111) - This course presents an overview of theories, applications (including observations) and issues pertinent to infant and toddler development in group and/or family settings. Includes state requirements for licensing, health, safety and nutrition. Focuses on birth through age 3. (ECE 111; 0.5 credits)

EARLY CHILDHOOD EDUCATION CHILD GROWTH AND DEVELOPMENT (ECE 238)- This course covers the growth and development of the child from conception through the elementary school years. This course emphasizes physical, cognitive, language, social and emotional domains of development as they pertain to the concept of the whole child. It also includes ways adults can provide a supportive early childhood care and educational environment through teamwork and collaboration. (ECE 238; 0.5 credits)

VOCATIONAL

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Survey - Auto			9	.5	Course fee applicable
Survey - Welding			9	.5	Course fee applicable
Woods I			9,10,11,12	.5	Course fee applicable
Woods II			9,10,11,12	.5	Pass Woods I; course fee applicable
Carpentry I	C	CAR 103/105/121/122/123/170	10,11,12	4	Instructor Approval; suggested prerequisites: Woods I and Computer Aid Drafting (CAD)
Carpentry II	C	CON 106, CON 110, CON 111, CON 280	11,12	4	Instructor Approval; suggested prerequisite: Carpentry I
Machine Shop			9,10,11,12	.5	
Precision Machining I	C	MAC 105	10,11,12	1	Machine shop; instructor approval
Precision Machining II	C	MAC 105	11,12	1	Precision Machining I; instructor approval
Computer Aided Drafting (CAD)	C	CAD 101/202	10,11,12	1	Intro to Algebra or higher math; course fee applicable
Engineering Design I	C	CAD 101/202	10	1	By invitation only; course fee applicable
Engineering Design II	C	EGG 101/102	11	1	Course fee applicable
(H) Engineering Design III	H, C	EGT 143/243 CAD 255	12	1	Course fee applicable
(H) Advanced Engineering Design	H, C	CAD 289 or EGG 170	11,12	1	Can take concurrently with Engineering Design II; course fee applicable

Students will be responsible for purchasing their own materials. Take home project costs usually range from $10-$50 depending upon the project the student chooses to complete.

SURVEY - AUTO- The Survey Auto course is established for freshmen to experience hands-on activities and is a pre-Auto course.

SURVEY - WELDING - The Survey Welding course is established for freshmen to experience hand-on activities and a pre-Welding course.

WOODS I - Introduces basic squaring procedures and the beginning of basic woodworking through the assembly of a small bookshelf.

WOODS II - Teaches advanced cabinetry and squaring procedures as well as basic lathe use through the assembly of a bedside table with a drawer.

CARPENTRY I - Teaches the basics of homebuilding as well as jobsite introduction and basic hand tool use.

CARPENTRY II - Teaches advanced home building techniques as well as leadership roles by leading their own crew on the jobsite through the entire home building process. 10 college credits will be earned upon completion of class.

MACHINE SHOP - Teaches introductory use of manually operated lathes and milling machines to make the required project.

PRECISION MACHINING I - Teaches advanced turning and milling practices through the creation of required projects. CNC milling and turning are introduced.

PRECISION MACHINING II - Teaches advanced turning and milling practices through the creation of required projects. Beginning CNC milling and turning, CAM programming, and operation are taught.

COMPUTER AIDED DRAFTING (CAD) - This course is designed to give students the basic print reading and technical drawing skill necessary for developing working drawings used during vocational training. Many art students also find this course of study meets their needs. Computer Aided Drafting is highly recommended for trades and industry vocational students.

COMPUTER AIDED DRAFTING (CAD) - This course is designed to give students the basic print reading and technical drawing skill necessary for developing working drawings used during vocational training. Many art students also find this course of study meets their needs. Computer Aided Drafting is highly recommended for trades and industry vocational students.

ENGINEERING DESIGN I – Develop employable skills in computer-aided design and drafting. Establish architectural and mechanical pre-engineering design skills. Expand problem-solving skills while engaging in product development, three-dimensional modeling, and layout.

ENGINEERING DESIGN II – Develop employable skills in computer-aided design and drafting. Establish architectural, mechanical, and structural pre-engineering design skills. Expand problem-solving skills while engaging in product development, three-dimensional modeling, and layout.

(H) ENGINEERING DESIGN III – Develop employable skills in computer-aided design and drafting. Hone architectural and mechanical design skills. Establish civil and structural pre-engineering design skills. Expand problem-solving skills while creating civil engineering projects including survey drafting, pre-cast concrete and steel structures, and GIS map creation.

(H) ADVANCED ENGINEERING DESIGN – Advance your employable computer-aided design skills beyond Engineering Design I, II, and III. Expand problem-solving skills by solving engineering problems and developing engineering projects. Designing your own CAD projects in the area of your interest.

ENGINEERING DESIGN NOTE:

Digital design and drafting certification are available with completion of Engineering Design III. In order to receive certification, students must complete the following: "C" grade or better in the following: Algebra I Part 2; Algebra II; Geometry; Machine Shop or Advance Engineering Design; and one of the following: Chemistry, (H) Chemistry, AP Chemistry, (H) Physics or AP Physics.

HEALTH, PHYSICAL EDUCATION AND RECREATION (HPER)

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

HEALTH, PHYSICAL EDUCATION, AND RECREATION (HPER)

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Choices			9	.5	
Body Works			9,10,11,12	.5	Course fee applicable
Foundations of CrossFit			9,10,11,12	.5	Course fee applicable
Weightlifting			9,10,11,12	.5	
Sports for Life			9,10,11,12	.5	Course fee applicable

CHOICES - This required graduation course includes classroom lessons, guest speakers, projects and activities/discussions that encompass the importance of mental, social-emotional and physical health. Focus will be on the effects of media on health, managing stress, relationships, decision-making, substance abuse, and mindfulness.

BODY WORKS - This course will introduce students to cardiovascular workouts such as aerobics, walking/jogging, circuit training, and other aerobic activities. Topics covered in this course include healthy eating, calculations of target heart rate, health risk factors, components of anaerobic vs. aerobic workouts, strength training, self-defense, relaxation and stress reduction. There will be a fee for a required activity that is in our community. More information will be given in class.

FOUNDATIONS OF CROSSFIT - This course is designed to improve student fitness by utilizing the CrossFit fitness model. The course will focus on creating a positive and infectious environment where students will be motivated to improve their individual fitness levels. A $15 fee will be assessed.

WEIGHTLIFTING - Weightlifting is designed for the person who wants to lift weights for strengthening and toning purposes. The class is designed around a variety of lifts so that the person taking this class can strengthen and tone his/her body.

SPORTS FOR LIFE - This course will consist of sports and activities that are designed to teach and promote teamwork, sportsmanship and fair play. Students will have the opportunity to be exposed to a wide variety of activities to promote a healthy lifestyle. There will be a fee for a required Bowling unit. More information will be given in class.

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

ART

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Foundational Studio Art			9,10,11,12	.5	Course fee applicable
Intermediate Studio Art			9,10,11,12	.5	Foundational Studio Art or Drawing/Painting, Course fee applicable
Drawing/Painting			9,10,11,12	1	Course fee applicable
Ceramics I	C	ART 161	9,10,11,12	.5	Both courses must be taken consecutively in the same semester in order to gain concurrent enrollment credit; Course fee applicable
Ceramics II	C		9,10,11,12	.5	
Printmaking			9,10,11,12	.5	Course fee applicable
Advanced Studio Art	C	ART 110	10,11,12	1	Foundational Art or Drawing/Painting and Intermediate Studio Art and/or instructor approval, Course fee applicable
Advanced Ceramics	C	ART 261	10,11,12	1	Ceramics I and Ceramics II; Course fee applicable
AP Art and Design	H, AP, C	ART 131	11,12	2	Complete four other art courses and/or instructor approval; Course fee applicable

NOTES:

- **For particular courses, students will be required to furnish their own supplies (i.e. clay, sketchbooks, canvases, etc.) based on the projects they choose. Course fees vary depending on the class.**
- **Concurrent Enrollment for Ceramics requires students to take I then II in one semester. For example, Ceramics I (quarter 1) and Ceramics II (quarter 2).**

FOUNDATIONAL STUDIO ART - This course is designed for students who like to work in many different artistic areas to discover interests and abilities for further study. Students learn the primary skills of many visual art processes as well as design and creative strategies while working independently and collaboratively.

INTERMEDIATE STUDIO ART - Students continue exploring a variety of 2D and 3D art media, gain art appreciation, and increase creative abilities in this follow-up to the introductory Foundational Studio Art or Drawing/Painting courses.

DRAWING/PAINTING - Increase understanding of the skills and concepts used in the two-dimensional arts through the practice of drawing AND painting. Students will focus on using drawing concepts and painting techniques through a variety of media, gaining more control over design principles and personal voice.

CERAMICS I - Students explore ceramic work by learning traditional hand-building processes. Ceramic art will be examined through the artwork of various artists, cultures, and time periods.

CERAMICS II - Using modern techniques in hand-built ceramic art, students create pieces that emphasize personal vision of concepts and themes. Various contemporary ceramic artists will also be explored in order to gain a deeper understanding of current work in the field of ceramics.

PRINTMAKING - Students are introduced to the production of multiple images from a single design using monoprint, collagraph, and relief printing processes. An emphasis on design thinking will encompass this uniquely exciting, yet ancient form of art-making.

ADVANCED STUDIO ART - A studio class for juniors and seniors with a desire to improve and increase artistic skills by working with a variety of media while studying traditional, modern, and contemporary art. Students will increase their understanding of art concerns and develop their own unique artwork.

ADVANCED CERAMICS - Utilizing hand-building and wheel-throwing techniques, students will develop ceramic work that pushes their personal comfort zones. Students explore concepts of their interest that push boundaries in clay-making, often choosing to make large-scale and/or complicated work.

AP ART AND DESIGN - Students produce college-level work based on quality and artistic investigation, through a variety of methods and techniques. Student interests drive much of the studies in this *portfolio-building* course, and work is evaluated by the College Board in May (all portfolio types are offered - AP Drawing, AP 2D Art & Design, and AP 3D Art & Design).

AP ART HISTORY - A college level survey course of art history from prehistoric cave paintings to installations of the 21st Century through the focus painting, sculpture and architecture. Participants are expected to take the AP Art History examination in May.

MUSIC

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Marching Band			9,10,11,12	1	Past participation in middle school band program or with permission of the instructor; course fee applicable
Symphonic Band			9,10,11,12	1	Audition; marching band; selection by director; course fee applicable
Percussion			9,10,11,12	1	Instructor approval only
Jazz Band			9,10,11,12	1	Instructor approval only
Music Appreciation			9,10,11,12	1	
Music Theory Part A			10,11,12	.5	
Music Theory Part B			10,11,12	.5	
Music Technology and Production			10,11,12	1	
Concert Choir			9,10,11,12	1	
Tiger Ladies			10,11,12	2	Audition; selection by director
Encore!			10, 11,12	2	Audition; selection by director
Vocal Music Performance			11,12	.5	Must be concurrently enrolled or have passed a performance ensemble (Concert Choir, Tiger Ladies, Encore!)

MARCHING BAND - The Marching Band is a competitive musical ensemble that performs at all home football games, several marching contests, pep rallies, assemblies, and parades. This course is required of all students who wish to participate in other band programs. There are performance dress requirements/costs and activity fees.

SYMPHONIC BAND - The Symphonic Band and Wind Ensemble are performing ensembles that participate in formal concerts and festivals for 2nd through 4th quarters. This course is required of all students who wish to participate in other band programs. There are performance dress requirements/costs and activity fees.

PERCUSSION - Percussion class is designated for CCHS Symphonic Band/Wind Ensemble percussionists only. Percussionists will work on concert band literature, percussion ensemble literature, and begin work on the upcoming school year's competitive field show music. All percussionists will be expected to perform with Symphonic Band and/or Wind Ensemble throughout the concert season.

JAZZ BAND - This course is an in-depth study of advanced instrumental techniques as they relate to jazz literature. The Jazz Band will participate in local concerts, festivals, and community activities. Students must be active members of the CCHS instrumental music program (some exceptions may be granted on a case-by-case basis and with instructor approval).

MUSIC APPRECIATION - Covers the basic materials of music, musical forms, media, and genres. This course emphasizes the development of tools for intelligent listening and understanding of music. Students will not perform in a formal concert, but may be required to attend designated concerts as part of the course.

MUSIC THEORY PARTS A/B – **Part A**: Students will learn skills and gain knowledge that are foundational to the understanding of music, including notation, pitch, rhythm, meter, and key. **Part B**: Students will develop a deeper understanding of more complex musical elements, including chord theory, transposition, harmonic progression and composition.

MUSIC TECHNOLOGY PRODUCTION - Students will learn the technical use of live sound equipment; music recording and production equipment; digital audio recording and mixing software; and compositional software. In addition to technical skills, basic music theory, composition, and critical evaluation skills will be taught.

CONCERT CHOIR - A semester long introductory vocal performance class where students are introduced to basic music theory and a variety of styles and genres of music and performance through singing. Additional performances are also **required** as part of the course grade. There are performance dress requirements.

TIGER LADIES - Tiger Ladies is an advanced auditioned women's choir with an emphasis on the mastery of a variety of styles and genres of music and performance. Basic and intermediate music theory will be included in the curriculum. Students who are selected to be in Tiger Ladies will be enrolled for the entire school year in which they make the commitment. Additional performances and outside obligations are also required as part of the course grade. There are performance dress requirements.

ENCORE! - Encore is an auditioned mixed chorus for the most advanced vocal music students at CCHS and emphasizes the mastery of a variety of styles and genres of music and performance. Basic, intermediate and advanced music theory will be included in the curriculum. Students who are selected to be in Encore! will be enrolled for the entire school year in which they make the commitment. Additional performances and outside obligations are also required as part of the course grade. There are performance dress requirements. CCHS Madrigals Singers are chosen each year from members of Encore providing an additional performance opportunity. Academic Honors Credit for Music is available to senior Encore members in good standing who meet credit requirements and pass both a Music Theory Exam and a Performance Jury. See instructor for more information.

VOCAL MUSIC PERFORMANCE - This course is designed to help students prepare for auditions, contests, honors juries and/or performances beyond the classroom. Students will prepare/master vocal solo/ensemble performances in various styles including classical art songs and music theatre. Students will learn/practice proper, and stylistically appropriate, vocal techniques. In addition, students will be coached on acting and presentational skills. Individual and group performances are required for this course.

WORLD/FOREIGN LANGUAGES

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Spanish I			9,10,11,12	1	"C" or better in eighth grade English
Spanish II			9,10,11,12	1	"C" or better in Spanish I
Spanish III (H)	H		10,11,12	1	"B" or better in Spanish II. Sophomores must have at least a "B" in English
Spanish IV (H)	H		11,12	1	"B" or better in third level or written teacher recommendation; new students must be assessed by Spanish teacher to be placed in Spanish IV

SPANISH I - *(Prerequisite: Must have a "C" or better in eighth grade English; CSAP reading must be proficient)* Students will develop a basic understanding of Spanish. Students will have the opportunity to develop skills in speaking, reading, writing and listening. Knowledge will be enhanced through the study of culture, history and geography. Basic sentence structure is introduced. Active participation is required.

SPANISH II - *(Prerequisite: "C" or better in Spanish I)* Intermediate students will have the opportunity to use and reinforce fundamental skills. Increased communication will be developed through speaking, reading, writing and listening. Students are challenged to interact and communicate in Spanish. Cultural studies will enhance learning opportunities.

SPANISH III - *(Prerequisite: "B" or better in Spanish II. Sophomores must have at least a "B" in English)* Level three students will continue to have the opportunity to use and reinforce fundamental and more advanced language skills. Increased and higher level communication will be developed through speaking, reading, writing and listening. New grammatical structures are presented and previous grammar is reviewed. Cultural studies will enhance learning opportunities.

SPANISH IV - *(Prerequisite: "B" or better in third level or written teacher recommendation; new students must be assessed by Spanish teacher to be placed in Spanish IV)* Emphasis is placed on the use of everyday, practical conversational skills, acquisition of new vocabulary, and review of grammatical structures. Written and oral analysis of Spanish and Latin American literature is included in the course.

EXCEPTIONAL STUDENT SERVICES

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

EXCEPTIONAL STUDENT SERVICES

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Transitions I			9,10,11,12	1	IEP staffing, committee recommendation
Transitions II			9,10,11,12	1	IEP staffing, committee recommendation
Basic Skills Math I			9,10,11,12	1	IEP staffing, committee recommendation
Basic Skills Math II			9,10,11,12	1	IEP staffing, committee recommendation
Reading and Writing Skills I			9,10,11,12	1	IEP staffing, committee recommendation
Reading and Writing Skills II			9,10,11,12	1	IEP staffing, committee recommendation
Character and Resource Education Lab (CARE)			9,10,11,12	1	IEP staffing, committee recommendation
CARE Math/Science			9,10,11,12	1	IEP staffing, committee recommendation
CARE Reading Writing/Social Studies			9,10,11,12	1	IEP staffing, committee recommendation
Electronic Recycling			9,10,11,12	.5	IEP staffing, committee recommendation
Direct Instruction			9,10,11,12	1	IEP staffing, committee recommendation
Resource			9,10,11,12	.5	IEP staffing, committee recommendation

TRANSITION I - This semester-long course is designed for students who require a modified curriculum to gain independent living skills in areas such as but not limited to personal care, interpersonal skills, career education, independent living, personal finance, and community resources.

TRANSITION II - This year-long course is designed for students who are on IEPs to help them develop independent living skills. Instruction includes topics such as obtaining and caring for a living space, exploring career options, practicing important job-related skills, personal finance, personal care, and community involvement.

BASIC SKILLS MATH I - This course is specifically designed for students who require a modified curriculum in the area of math. The course focuses on basic math calculations involving money, time, fractions, decimals, measurement as daily life skills to solving real-world grade-level problems.

BASIC SKILLS MATH II - Basic Skills Math II focuses on real world math applications where students will work on whole numbers, fractions, decimals, percentages, integers, order of operations, geometric shapes, setting up and solving one-step and two-step equations while working with grade-level real-world word problems.

READING AND WRITING SKILLS I - This semester-long course is designed for students who require a modified curriculum using a variety of strategies to improve their functional reading and writing skills in order to communicate their needs in a community setting. There is also a prescriptive, research-based curriculum which offers grade level content which is highly modified to meet individual student needs.

READING AND WRITING SKILLS II - This year-long course will allow students to explore the writing process and to build upon their reading and analysis skills. Students will write a paragraph that has a thesis statement, two or more details, and transitional phrases or wording. Students will learn to write drafts, to use graphic organizers, and to revise their writing. The writing aspect of this class includes study of grammar and usage as well as vocabulary. The reading element of this course will integrate reading comprehension, fluency, vocabulary, decoding skills, and written expression to help students improve their reading skills.

CHARACTER AND RESOURCE EDUCATION LAB (CARE) - Students will explore and work on skills such as self-managing and self-direction within the educational environment. The course is tailored towards the student's individual social and academic needs.

CARE MATH/SCIENCE - This year-long course is specifically designed for students who require a modified curriculum in the area of science. The course focuses on prescriptive, researched-based interventions for basic science skills in the areas of biology, ecology, chemistry, earth science, and physics.

CARE READING WRITING/SOCIAL STUDIES - The year-long course is specifically designed for students who require a modified curriculum in the area of social studies. (This class provides students who are seniors and require a modified curriculum with the instruction in one semester to earn one credit in American Government.)

ELECTRONIC RECYCLING - Students will learn entry-level job skills including customer service, workplace safety, hand tools, inventory, and production methods in an actual business setting. Soft work skills like teamwork, problem-solving, work ethic, dependability, and attitude are emphasized during the course. Additionally, students will learn basic electronic and computer hardware terminology and some basic computer repair techniques in the advanced sections.

DIRECT INSTRUCTION - This semester-long course is specifically designed to educate students about their transitional IEP. The course provides students with the instruction that builds the necessary skills that students require to become knowledgeable about their IEP as well as becoming self-directed, self-managing, and a self-advocate within the educational environment.

RESOURCE - This transitional program builds independent living skills such as vocational/postsecondary education options, home living options, recreational and leisure options, future leisure activities, employment skills, budgeting skills, social skills, problem-solving skills for real life situations, resume-writing skills, career exploration, etc.

STUDENT PROGRAMS

Course Designation Coding: H=Honors, AP=Advance Placement, C=Concurrent Enrollment, X=Flex, A=Intervention

STUDENT PROGRAMS

Course Title	Course Designation	Concurrent Enrollment Course Equivalent	Year	Credit	Recommended Prerequisite
Link Crew Leadership			11,12	1	Interview and selection process required
Student Assistant			10,11,12	.25	Teacher recommendation
Independent Block			12	0	Counselor approval; must be on-track for graduation
Credit Recovery			9,10,11,12	varies	Must have failed a course once; required to pay $55 per course/quarter depending on progress

LINK CREW LEADERSHIP – This course is intended to tap the potential and maximize the benefits of the selected CCHS Link Crew leaders. These benefits include increased sense of community, improved school climate, and successful transition of new students into The Pride culture. This class allows Link Crew leaders the time and opportunity to build and foster relationships with freshman and new students as well as opportunities to plan and implement all activities of The Pride.
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STUDENT ASSISTANT - Assistants perform a variety of tasks as assigned by staff. It will be the student's obligation to seek out a staff member in need of assistance and supply the guidance office with a signed form from that staff member. Student assistants may be employed in the following areas: library, individual teachers, guidance office, main office, nurse's office, custodial, etc. Students may be an assistant only one block per day. This course is graded pass/fail and will not count towards GPA, total grade points or class rank. The student will receive ¼ credit for each quarter. **Students not maintaining enough credits to graduate on time may not sign-up for a student assistant position without the permission of the principal.**

INDEPENDENT BLOCK - No credit offered for this class. Student must either be off-campus, in the library, or in the commons area.

CREDIT RECOVERY (CR) - After failing a course, a student no longer has the option of retaking that course in the classroom. The student may take the course either during summer school or during designated credit recovery periods.