# CHERRY CREEK HIGH SCHOOL

# 2023-2024 REGISTRATION GUIDE

Each member of the CCHS community will be equipped intellectually, socially, and emotionally in pursuit of the chosen path.



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### 2023-2024

# REGISTRATION GUIDE

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### **REGISTRATION GUIDELINES FOR 2023-2024**

This course guide contains the requirements you must meet to register for classes at Cherry Creek High School. At the critical decision points in your high school career you should review your educational and vocational goals with your counselor and thoughtfully develop a program of study that will help you achieve these goals.

First, study the graduation requirements, college entrance requirements, Advanced Placement Program information and the recommended courses. Then, review the course offerings and plan your own course of study with your parents/guardians. Your choice of courses should be based on graduation requirements, teacher recommendations, your interests and abilities, past achievements and your post high school plans. When selecting courses, you will notice some have letters or symbols which indicate the following:

Indicates weighted course credit, including Honors and Advanced Placement courses



ACC Designates approved concurrent enrollment through Arapahoe Community College courses.

- (CP) Indicates College Preparatory classes
- (AP) Indicates Advanced Placement program classes
- ★ Indicates repeatable classes. For the complete list see page 5.

Some of the courses listed in this guide may not be offered if the number of students requesting a particular course is below a minimum class size. Each student should select alternate elective choices in case the first choice is not offered.

Each student will be able to access the Registration Guide on the CCHS website to obtain course information.

#### **REGISTRATION GUIDELINES:**

- 1. Credit requirements per semester
  - Freshmen and Sophomores—3 credits (6 classes)
  - Juniors and Seniors—2.5 credits (5 classes)

Students wishing to take more than 3 credits per semester must have the counselor's approval.

- 2 credits (4 classes) each semester must be in core classes i.e. English, Social Studies, Math, Science, World Languages.
- 2. Familiarize yourself with specific college admissions or vocational requirements.
  - If in doubt about credits for graduation or college admission, see your counselor.
- 3. Plan ahead for your entire high school career.
- **Credit is not issued for repeated courses except where noted.** If a student receives a D or an F in a class for any semester, the grade can be replaced by taking the class again the next semester it is offered. The most recent grade for the re-taken semester will become the grade of record.
- 5. Students must complete the paper pre-registration process, indicating the courses desired for the 2023-2024 school year, including obtaining the required signatures.
- 6. Students will enter pre-registration course selections in February.

### **GRADUATION REQUIREMENTS**

Beginning with the Class of 2021, all graduates of the Cherry Creek School District, in addition to the required 22 credit requirements, must also meet competency benchmarks that indicate preparedness for success in college and career, as determined by Board Policy IKF. Please see the competency benchmarks on page 3.

In pursuit of its mission to ensure that all students reach their learning potential, the Board of Education recognizes that high school shall be generally considered as a four-year course of study. Therefore, graduation requirements are based on units of credit earned in grades nine through twelve in addition to a demonstration of College and Career Readiness in the areas of Mathematics and English. A unit of credit is defined as the amount of credit given for the successful completion of a course, which meets the required hours of instruction as defined in state law.

In order to prepare students for a successful post-secondary educational and work experience, the Board of Education strongly encourages students to participate in a rigorous academic core curriculum consisting of four years of English, four years of Mathematics, four years of Science, four years of Social Studies, at least two years of a World Language as required by the Colorado Commission on Higher Education for admission to four-year public colleges and universities in Colorado, and a technology class..

#### Minimum Units of Credit Needed to Graduate

A minimum of 22 units of credit shall be necessary for high school graduation. In addition to the 16.5 required units, all other credits shall be considered as electives and may be selected from the entire curricular offering.

Minimum credit requirements in various areas shall be as follows:

SUBJECT REQUIREMENT	CREDIT REQUIREMENT
Academic Core Subjects*	
English*	4.0 units
Mathematics*	3.0 units
Science*	3.0 units
Social Studies*	3.0 units (including 1 unit of US History and .5 unit of
	American Government)
Physical Education**	2.0 credits (including .5 credit in health)
Fine Arts, Business or Career and Technical Education	<u>1.5 units</u>
Minimum Total of Required Credits	16.5 units
Minimum Total of Elective Credits	<u>5.5 units</u>
MINIMUM TOTAL	22 units

<sup>\*</sup>Academic core subjects include English, Math, Science, Social Studies and World Languages. All students are expected to enroll in a minimum of four academic core units per semester.

<sup>\*\*</sup> Student athletes who have completed a season of athletics may be granted a one-time waiver of .5 of the required 1.5 units of physical education. This waiver does not reduce the total number of units required for graduation. Academic/Physical Education Waiver Requests must be submitted on form IKF-2-E.

### **GRADUATION REQUIREMENTS**



In 2016 new graduation requirements for the class of 2021 were modified across the State of Colorado, in every school district, to include the Cherry Creek Schools.

1

### Course Requirements for Graduation in <u>Cherry Creek</u> School District

Board Policy IKF

A minimum of 22 units of credit shall be necessary for high school graduation.

English: 4.0 units
Mathematics 3.0 units
Science 3.0 units
Social Studies 3.0 units
Physical Education 2.0 units
Fine Arts or CTE 1.5 units
Elective Offerings 5.5 units

3

### Skills Necessary for Success in College and Career

The following skills are critical to success in College and Career.

- Innovation
- Critical thinking skills
- Real world experiences
- Problem solving
- Curiosity / Inquiry
- Relevancy
- Working in teams
- Communication skills
- Project based learning
- Flexibility / Adaptability

2

### College and Career Ready Demonstration Requirement for Graduation in Cherry Creek and all Other Colorado Schools.

Regulation IKF-E

In addition to required coursework, all students must demonstrate Competency in Mathematics and English through one area below.

	English/Lang. Arts	Mathematics	
		255 on Arithmetic (AR)	
	241 on Reading	OR	
Next Generation Accuplacer	OR	230 on Quantitative	
Accupiacei	236 on Writing	Reasoning, Algebra and Statistics (QAS)	
Classic Accuplacer	62 Reading Comprehension OR 70 Sentence Skills	61 on Elementary Algebra	
ACT	18	19	
ACT WorkKeys	Bronze or higher	Bronze or higher	
Advanced Placement	2	2	
ASVAB (AFQT score)	31st percentile	31st percentile	
Concurrent Enrollment	Passing Grade	Passing Grade	
International Baccalaureate	4	4	
SAT	470	500	
District Capstone	Secondary Literacy Assessment	Portfolio of Skills Exams	
Industry Certificate	District Determined	District Determined	

### **GRADUATION REQUIREMENTS**

#### ADVANCED PLACEMENT (AP)

The Cherry Creek School District high schools participate in the College Board's national Advanced Placement Program. AP courses offered at Cherry Creek High School include:

- English Language and Composition, English Literature and Composition
- United States History, European History, World History, Microeconomics, Macroeconomics, Human Geography, Comparative Government and Politics, United States Government and Politics
- Statistics, Calculus AB, Calculus BC, Computer Science, Computer Science Principles
- Biology, Chemistry, Physics C, Environmental Science
- French Language, Spanish Language, Spanish Literature, German, Latin, Chinese
- Music Theory, Studio Art, 3-D Studio Art, Art History
- AP Capstone Program (Seminar, Research)

AP courses are the equivalent of introductory college courses. Motivated, high-achieving students may be able to complete certain college requirements while still in high school. Each course culminates in a national examination. Students who take an AP course are expected to take the exams. Students are required to take the national exams if they wish to be considered for credit at the college level. Each college or university has its own criteria for when and if to award AP credit; students should check these criteria with the individual institution.

The Cherry Creek School District offers students and parents the opportunity for an official transcript that reflects a weighted grade point average. Weighted grades are given in those courses designated as either Honors or AP. These courses are weighted on a five-point scale.

#### REPEATABLE COURSES

### The following courses can be repeated for credit

\*Advanced Debate Honors Broadcast Media
\*Cross-Ex Debate Honors Orchestras
CP Journalism Piano

CP Journalism Leadership Workshop Advanced Acting

Reading Essentials 1,2,3,4 Jewelry/Metals Workshop

Yearbook Technical Theatre 2

Advanced Ceramics Academic Support Lab

Artisans Workshop (4 semesters only)

All P.E., classes (exc, Weight Training 1, Adv. Leader

Training)

Choirs Teacher & Office Assists

Bands ILC & Practical Courses ILC & Practical Courses

Broadcast Journalism/TV Prod Life Skills-REACH (2 semesters only)

**Students Supporting Students** 

**NOTE:** Courses designated with \*asterisk receive a weighted grade.

### CHERRY CREEK HIGH SCHOOL FOUR-YEAR PLANNING GUIDE

	Grade 9	Grade 10	Grade 11	Grade 12
English – 4.0 credits required	English	English	English	English
Social Studies – 4.0 credits recommended; 3.0 credits required. Must include: 1.0 unit U.S. History 0.5 unit Government/Civics	U.S. History	World History	Government	
Mathematics – 4.0 credits recommended; 3.0 credits required	Math	Math	Math	
Science – 4.0 credits recommended; 3.0 credits required	Science	Science	Science	
World Languages – Completion of Level 3 recommended (refer to individual college entrance requirements)				
Performing & Visual Arts, Business, Vocational Education – 1.5 credits required				
<b>Health</b> – 0.5 credits required		Health		
Physical Education – 1.5 credits required				
Electives – 5.5 credits remaining				
	ADVISORY	ADVISORY	ADVISORY	ADVISORY
A total of 24.0 credits is recommended; a minimum of 22.0 credits is required to graduate.				

Students and parents may access this four-year planning guide and other post-graduate information on the Naviance website. See the CCHS website  $\frac{http://cherrycreek.cherrycreekschools.org/Pages/}{http://cherrycreekschools.org/Pages/}.$  Go to Resources/Links and click on "Naviance".

### **COLLEGE ADMISSIONS**

Preparing for college starts as early as the ninth grade, if not earlier. Parents and students often ask counselors, "What will it take for me to be accepted to (Fill in the Blank) College?" That is a difficult question to answer, as competition has intensified for a spot at many colleges, and it is hard to ascertain which factors colleges will emphasize in a particular year. We do know that colleges, especially those who are most competitive in admissions, seek students academically prepared for the rigors of college-level courses, who can contribute to their campus community, and who have a clear sense of why they are a good match for that college.

#### **Top Factors Influencing Admissions Decisions**

Each year, the National Association for College Admission Counseling (NACAC) surveys colleges and universities to determine the top factors influencing admission decisions. Grades in college preparatory courses and strength of curriculum are considered by colleges to be the top factors in the admission decision, followed closely by admission test scores and grades in all courses.

Nearly 80 percent of all colleges and universities rated grades in college prep courses as "considerably important," followed by 60 percent for strength of curriculum, 60 percent for grades in all courses, and 55 percent for admission test scores. According to the 2019 "State of College Admissions Report," the following factors, in order of importance, were:

- 1. Grades in college prep courses (CP)
- 2. Strength of curriculum
- 3. Grades in all courses
- 4. Essay or writing sample
- 5. Counselor recommendation
- 6. Teacher recommendation

- 7. Admission test scores (ACT, SAT)
- 8. Student's demonstrated interest
- 9. Extracurricular activities
- 10. Subject test scores (AP, IB)
- 11. Interview

SOURCE: NACAC Admission Trends Survey, 2022

#### HIGHER EDUCATION ADMISSION RECOMMENDATIONS (HEAR)

In 2003, the Colorado Commission on Higher Education adopted the Higher Education Admission Requirements (changed to "Recommendations" in 2018), which provide a high school course mix and rigor guideline for students planning to attend any of Colorado's public four-year colleges or universities. The recommendations were implemented in in two phases: Phase 1 for students graduating in 2008 and 2009, and Phase 2 for students graduating in 2010 and beyond. Private colleges and universities set their own admission standards, so students should contact those institutions directly for information regarding their enrollment policies. Additionally, public two-year colleges have open enrollment policies, meaning that students applying to these schools do not need to meet the following admissions recommendations

Students planning to attend a four-year college or university in Colorado should complete the following classes in order to fulfill the Higher Education Admission Recommendations (HEAR). HEAR is one factor of many that public four-year institutions consider in the admission decision process. <u>Visit the CDHE Admission webpage</u> to learn about all admission review factors.

Meeting HEAR does not guarantee admission to a four-year public institution. Additionally, colleges, universities and certain academic programs may have additional admission factors.

Academic Area	2010+ Graduates
English*	4 years
Mathematics (Must include Algebra I, Geometry, Algebra II or equivalents)**	4 years
Natural/Physical Sciences (two units must be lab-based)**	3 years
Social Sciences (at least one unit of U.S. or world history)	3 years
World/Foreign Language***	1 year
Academic Electives****	2 years

- Two units of ESL English may count for HEAR recommendations when combined with two units of successfully completed college preparatory English.
- College-preparatory ESL mathematics/science courses that include content and academic rigor/level comparable to other acceptable courses may satisfy HEAR recommendations
- American Sign Language (ASL) courses can count toward the World Language recommendation.
- Acceptable Academic Electives include additional courses in English, mathematics, natural/physical sciences and social sciences, foreign languages, art, music, journalism, drama, computer science, honors, Advanced Placement, International Baccalaureate courses, and appropriate CTE courses.

The Colorado Commission on Higher Education does not review individual high school courses to determine whether or not they meet Colorado's Higher Education Admissions Recommendations. Because local school districts in Colorado oversee their high school curricula and colleges and universities establish their own entrance standards, it is their discretion to determine what coursework meets HEAR.

### Four-Year Academic Plans and Recommended High School Programs of Study

Each year, Creek counselors meet with students to develop and evaluate their Four-Year Academic Plans, keeping in mind each student's interests, goals and dreams as they prepare for their post-graduate experience. To best prepare for the college admission process, we encourage students to pursue the sample academic programs below; however, be aware that completion of a sample program like these does not guarantee admission, especially at highly and most selective colleges.

Most Selective Institutions			
Recommended Minimum Program of Study	English	4 years with Honors/AP Level	
	Math	4 years with Honors/AP Level	
	Social Studies	3-4 years with AP when possible	
	Science	3-4 years with Honors/AP Level	
	World Languages	3-4 years with Honors/AP Level	

HIGHLY SELECTIVE INSTITUTIONS			
Recommended Minimum Program of Study	English	4 years with Honors/AP encouraged	
	Math	3-4 years with Honors/AP encouraged	
	Social Studies	3-4 years with Honors/AP encouraged	
	Science	3-4 years with Honors/AP encouraged	
	World Languages	3-4 years with Honors/AP encouraged	

VERY SELECTIVE INSTITUTIONS			
Recommended Minimum Program of Study	English	4 years	
	Math	4 years	
	Social Studies	3-4 years	
	Science	2-4 years depending on major	
	World Languages	2 years minimum	

**Note:** For these types of schools, Creek counselors recommend that students complete the minimum academic standards, which should match our CCHS graduation requirements, but also challenge themselves further with additional and/or honors coursework when appropriate. Many applicants to Very Selective colleges/universities complete 1-3 AP classes at a minimum.

LESS SELECTIVE INSTITUTIONS			
Recommended Minimum Program of Study	English	4 years	
	Math	4 years	
	Social Studies	3 years	
	Science	3 years	
	World Languages	1 year, per HEAR requirements	

**Note:** CCHS counselors recommend that students interested in less selective institutions plan to complete our minimum graduation requirements, and take two years of a World Languages, if possible. Community and junior colleges, vocational schools and military induction require that all graduation requirements are met.

# INFORMATION FOR PROSPECTIVE COLLEGE ATHLETES

#### NCAA ELIGIBILITY REQUIREMENTS

Students who wish to participate in collegiate athletics at the Division I or II level must apply for certification through the National Collegiate Athletic Association (NCAA) Eligibility Center after their junior year in high school. Cherry Creek High School counselors can assist students in completing the necessary application. The website is www.ncaaeligibilitycenter.org.

The most comprehensive guide for athletes is the <u>NCAA Guide for the College Bound Student Athlete</u> produced by the NCAA.

This Guide has been designed to help you and your family understand the NCAA initial-eligibility process and to prepare you for transitioning from high school to becoming an NCAA Division I or II student-athlete. With more than 1,000 colleges and universities across three divisions, NCAA schools offer a variety of academic and athletics programs to meet your needs. The NCAA Eligibility Center encourages you, the student, to take an active role in this process. Take time to complete the registration yourself or jointly with your parents. As a future student-athlete, it is important that you become personally involved.

Download the comprehensive guide for free at:

http://fs.ncaa.org/Docs/eligibility\_center/Student\_Resources/CBSA.pdf

### **List of NCAA Approved Core Courses (formerly 48H)**

The NCAA Initial Eligibility Center has approved courses for use in establishing the certification status of student athletes from Cherry Creek High School. If you intend to participate in college athletics, please see your counselor concerning how this list affects your registration for classes.

To access Cherry Creek's List of Approved Core courses:

- Go to www.ncaaeligibilitycenter.org.
- Click on "Help" on the upper right side of the page.
- Scroll down and click on "Find your Core Courses"
- Enter our high school code 060515 in the box and click "Search"
- Click on the "Show all Approved Courses" box
- You now have the most up to date list of our approved Core courses.

Be aware that not all CCHS Core Courses are approved by the NCAA Eligibility Center.

We strongly encourage student-athletes and parents to consult with their counselor and the list of approved Core Courses early in their academic planning to ensure that approved courses are selected.

# **CONCURRENT ENROLLMENT PROGRAM**

Cherry Creek High School offers college credit through Arapahoe Community College to qualified students for successful completion of the following courses:

CE Introduction to Entrepreneurship CE Introduction to College Composition CE Introduction to College Literature CE Introduction to PC Applications Marketing 1: Principles of Marketing

Marketing 2: Social Media & Entrepreneurship

CE Personal Finance CE Intro to Business

Students will also receive high school graduation credit for CE courses.

To qualify for these opportunities, a student must first complete pre-requisites which may include Accuplacer, ACT and/or SAT scores, and/or course completion. Students are also required to complete the following:

- 1. Concurrent Enrollment Application . A Concurrent Enrollment application form shall include, but need not be limited to, the following: Assurance of consent by the Qualified Student and parent or legal guardian to the following: The qualified student will register for the College Opportunity Fund (COF) stipend and understands that credits earned will be deducted from the COF lifetime account (145.0 credit hours) for courses being taken at Institutions of Higher Education that participate in the COF, with the exception of basic skills credits.
- 2. ACC application for each course.

The student must be enrolled in this class for the entire semester or year and finish with a grade of C or higher to earn college credit.

The college credit will be awarded through ACC. Students should check with their transferring institution regarding the transferability of the course.

- \* Students in some Math and English courses may be able to earn college credit through CU Succeeds for a fee. Students should consult the instructor about eligible courses.
- \*\*Students in Adventure Leadership Training may be able to earn college credit through Red Rocks Community College. Students should consult the instructor.
- \*\*\*Concurrent Enrollment college credit is subject to course and teacher approval and completion of all required registration steps by the majority of the class within the designated semester deadline. Courses may be subject to cancellation for Concurrent Enrollment college credit due to unforeseen changes.
- \*\*\*\*Concurrent Enrollment (CE) and Career Tech Ed (CTE) courses are not eligible for pass/fail.

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
ENGLISH			
*Advanced Debate Honors	Honors	10-12	Year/l
*Advanced Placement Language and Composition	Honors	11	Year/l
*Advanced Placement Literature and Composition	Honors	12	Year/l
*Cross-Ex Debate Honors	Honors	10-12	Year/l
*English 10 Honors	Honors	10	Year/l
*English 9 Honors	Honors	9	Year/l
CP English 10		10	Year/1
CP English 11		11	Year/1
CP English 9		9	Year/1
CP African American Literature		11-12	Sem/.5
CP Award Winners		11-12	Sem/.5
CP Creative Writing		12	Sem/.5
CP Humanities English 9: American Studies (taken with Humanities 9: American Studies)		9	Year/1
CP Introduction to College Composition	Concurrent Enrollment	11-12	Sem/.5
CP Introduction to College Literature	Concurrent Enrollment	12	Sem/.5
CP Journalism		9-12	Year/1
CP Journalism Leadership Workshop		10-12	Sem/.5
CP Multicultural Literature		11-12	Sem/.5
CP Mythology to Folklore-Oral Tradition		11-12	Sem/.5
CP Narrative Art in Literature and Film		12	Sem/.5
CP Science Fiction		12	Sem/.5
CP Senior Seminar: Literature and Writing		12	Year/1
CP Shakespeare		11-12	Sem/.5
CP Survey of Poetry		11-12	Sem/.5
CP Writing on Film		12	Sem/.5
Beginning Debate		9-10	Year/1
Contemporary Authors		12	Sem/.5
Reading Essentials 1		9-10	Sem/.5
Reading Essentials 2		9-10	Sem/.5
Reading Essentials 3		10-12	Sem/.5
Reading Essentials 4		10-12	Sem/.5
Reading and Studying for Success		12	Sem/.5
Writing Clinic		12	Sem/.5
ELA			
CP English 9 (Teamed)		9	Year/1
CP English 10 (Teamed)		10	Year/1
CP English 11 (Teamed)		11	Year/1
CP Creative Writing (Teamed)		12	Sem/.5

**NOTE:** Courses designated with \*asterisk receive a weighted grade

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
SOCIAL STUDIES			
*Advanced Placement Comparative Government and Politics	Honors	11-12	Sem/.5
*Advanced Placement European History	Honors	10-12	Year/l
*Advanced Placement Human Geography	Honors	11-12	Sem/.5
*Advanced Placement Macroeconomics	Honors	11-12	Sem/.5
*Advanced Placement Microeconomics	Honors	11-12	Sem/.5
*Advanced Placement United States Government and Politics	Honors	11-12	Sem/.5
*Advanced Placement United States History	Honors	9,11-12	Year/1
*Advanced Placement World History: Modern	Honors	10-12	Year/1
CP African American History		10-12	Sem/.5
CP American Government		11-12	Sem/.5
CP American History Through Music		11-12	Sem/.5
CP Economics		11-12	Sem/.5
CP History of Ancient Rome		10-12	Sem/.5
CP Humanities 9: American Studies (taken with CP Humanities English 9: American Studies)		9	Year/1
CP International Relations		10-12	Sem/.5
CP Philosophy		11-12	Sem/.5
CP Psychology		11-12	Sem/.5
CP Recent America: 1945 to Present		10-12	Sem/.5
CP Sociology		11-12	Sem/.5
CP Street Law		10-12	Sem/.5
CP United States History		9	Year/1
CP United States History 11-12 Semester 1		11-12	Sem/.5
CP United States History 11-12 Semester 2		11-12	Sem/.5
CP World Geography		11-12	Sem/.5
CP World History		10	Year/1
CP World Religions		11-12	Sem/.5
CP World War I and II		10-12	Sem/.5
American Government		11-12	Sem/.5
United States History		9	Year/1
World History		10	Year/1

**NOTE:** Courses designated with \*asterisk receive a weighted grade

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
MATHEMATICS			
*Abstract Math/Linear Algebra Honors	Honors	11-12	Year/1
*Advanced Placement Calculus AB	Honors	11-12	Year/l
*Advanced Placement Calculus BC	Honors	10-12	Year/1
*Advanced Placement Computer Science A	Honors	10-12	Year/1
*Advanced Placement Computer Science Principles (earns Practical Fine Arts credit only)	Honors	9-12	Sem/.5
*Advanced Placement Statistics	Honors	11-12	Year/1
* Algebra 2/Trigonometry Honors	Honors	9-11	Year/1
*Calculus 3 Honors	Honors	11-12	Sem/.5
*Data Structures and Algorithms	Honors	10-12	Sem/.5
*Differential Equations Honors	Honors	11-12	Sem/.5
*Geometry Honors	Honors	9-10	Year/1
*iOS Application Development (earns Practical Fine Arts credit only)	Honors	10-12	Sem/.5
*Pre-Calculus Honors	Honors	9-12	Year/1
Business Calculus		11-12	Sem/.5
Calculus 1		11-12	Year/1
College Algebra		11-12	Sem/.5
College Trigonometry		11-12	Sem/.5
CP Accelerated Algebra 1		9-11	Year/1
CP Accelerated Algebra 2		10-12	Year/1
CP Accelerated Geometry		9-12	Year/1
CP Algebra 1		9-12	Year/1
CP Algebra 2		11-12	Year/1
CP Geometry		10-12	Year/1
Integrated Algebra/Geometry 1		9	Year/1
Intro to Computer Science (earns Practical Fine Arts credit only)		9-12	Sem/.5
Pre-Calculus with Trigonometry		11-12	Year/1
Probability and Statistics		11-12	Sem/.5
Statistical Analysis		12	Year/1

 $\textbf{NOTE:} \ \ \textit{Courses designated with *asterisk receive a weighted grade}$ 

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
SCIENCE			
*Advanced Placement Biology	Honors	11-12	Year/1.5
*Advanced Placement Chemistry	Honors	11-12	Year/l
*Advanced Placement Environmental Science	Honors	12	Year/l
*Advanced Placement Physics C	Honors	11-12	Year/1.5
*Advanced Placement Physics 1	Honors	11-12	Year/1
*Advanced Scientific Research Honors	Honors	9-12	Year/l
*Biology Honors	Honors	10-12	Year/l
*Chemistry Honors	Honors	10-12	Year/1
*Physical Science Honors	Honors	9	Year/1
*Physics Engineering Honors (take with CP Engineering Physics )	Honors	11-12	Year/1
CP Physics Engineering (take with CP Engineering Physics)		11-12	Year/1
CP Engineering Physics (take with CP Physics Engineering /*Physics Engineering Honors )		11-12	Year/1
Biology		10-12	Year/1
Chemistry		11-12	Sem/.5
CP Anatomy and Physiology		11-12	Year/1
CP Astronomy		11-12	Sem/.5
CP Biochemistry		11-12	Sem/.5
CP Biology		10-12	Year/1
CP Chemistry		11-12	Year/1
CP Environmental Science		12	Year/1
CP Geology		11-12	Sem/.5
CP Horticulture		11-12	Sem/.5
CP Marine Biology		11-12	Sem/.5
CP Physical Science		9	Year/1
CP Physics		11-12	Year/1
Environmental Science 1		11-12	Sem/.5
Environmental Science 2		11-12	Sem/.5
MAL Science 1		11-12	Sem/.5
MAL Science 2		11-12	Sem/.5
Physical Science		9	Year/1
Physics		11-12	Sem/.5
Robotics & Automated Systems (earns Practical Fine Arts credit only)		9-12	Year/1

**NOTE:** Courses designated with \*asterisk receive a weighted grade

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
WORLD LANGUAGE			
*Advanced Placement Chinese Language and Culture	Honors	9-12	Year/l
*Advanced Placement French Language and Culture	Honors	9-12	Year/l
*Advanced Placement German Language and Culture	Honors	9-12	Year/l
*Advanced Placement Latin	Honors	9-12	Year/l
*Advanced Placement Spanish Language and Culture	Honors	9-12	Year/l
*Advanced Placement Spanish Literature and Culture	Honors	9-12	Year/l
*Chinese 3/4 Honors	Honors	9-12	Year/1
*French Literature 6 Honors	Honors	9-12	Year/1
*French 3/4 Honors	Honors	9-12	Year/1
*German 3/4 Honors	Honors	9-12	Year/1
*Latin 3/4 Honors	Honors	9-12	Year/1
*Spanish 3/4 Honors	Honors	9-12	Year/1
*Spanish 4 Honors	Honors	9-12	Year/1
CP American Sign Language 1		10-12	Year/1
CP American Sign Language 2		10-12	Year/1
CP American Sign Language 3		10-12	Year/1
CP Chinese 1		9-12	Year/1
CP Chinese 2		9-12	Year/1
CP French 1		9-12	Year/1
CP French 2		9-12	Year/1
CP French 3		9-12	Year/1
CP French 4		9-12	Year/1
CP German 1		9-12	Year/1
CP German 2		9-12	Year/1
German Language Diploma Preparation		9-12	Sem/.5
CP Latin 1		9-12	Year/1
CP Latin 2		9-12	Year/1
CP Spanish 1		9-12	Year/1
CP Spanish 2		9-12	Year/1
CP Spanish 3		9-12	Year/1
CP Spanish 5 Conversation and Composition		9-12	Year/1
CP Spanish 3 for Native Speakers		9-12	Year/1

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
FINE ARTS, APPLIED ARTS, BUSINESS			
INSTRUMENTAL MUSIC			
Concert Band		9-12	Year/1
Symphonic Band 1	Audition Required	9-12	Year/l
Symphonic Band 2	Audition Required	9-12	Year/l
Wind Ensemble	Audition Required	9-12	Year/l
Jazz Band 1	Audition Required	9-12	Year/l
Jazz Band 2	Audition Required	9-12	Year/1
Concert Orchestra		9-12	Year/1
Chamber Orchestra	Audition Required	9-12	Year/1
Symphonic Orchestra	Audition Required	9-12	Year/1
VOCAL MUSIC/OTHER MUSIC COURSES			
Statesmen		9-12	Year/1
Choralaires		9	Year/1
A Cappella Choir		10-12	Year/1
Troubadours	Audition Required	10-12	Year/1
Creek 21	Audition Required	10-12	Year/1
Meistersingers	Audition Required	11-12	Year/1
Jazz Choir	Audition Required	10-12	Year/1
Piano		9-12	Year/1
*Advanced Placement Music Theory	Honors	11-12	Year/1
THEATRE			
Beginning Acting		9-12	Sem/.5
Intermediate Acting		10-12	Year/1
Advanced Acting		11-12	Year/1
Directing		12	Year/1
Technical Theatre 1		9-12	Sem/.5
Technical Theatre 2		9-12	Sem/.5
MAL Fine Arts		11-12	Sem/.5
VISUAL ARTS			
*Advanced Placement 3-D Studio Art	Honors	11-12	Year/1
*Advanced Placement 2-D Studio Art	Honors	11-12	Year/1
*Advanced Placement Art History	Honors	10-12	Year/1
*Advanced Placement Studio Art	Honors	11-12	Year/1
Advanced Ceramics		11-12	Sem/.5
Advanced Drawing/Design		10-12	Sem/.5
Advanced Photography Workshop		11-12	Year/1
Artisans Workshop		11-12	Sem/.5
Ceramics 1		10-12	Sem/.5
Ceramics 2		11-12	Sem/.5
Digital Commercial Photography	Concurrent Enrollment	10-12	Year/1
Drawing/Design 1		9-12	Sem/.5
Drawing/Design 2		9-12	Sem/.5
Live Figure Drawing		9-12	Sem/.5
Jewelry/Metal 1		9-12	Sem/.5
Jewelry/Metal 2		10-12	Sem/.5
Jewelry/Metal Workshop		9-12	Sem/.5

**NOTE:** Courses designated with \*asterisk receive a weighted grade

VISUAL ARTS CONT.   Painting	COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
Advanced Painting       10-12       Sem/.5         Photography 1       9-12       Sem/.5         Photography 2       10-12       Sem/.5         Video Production 1       9-12       Sem/.5         Video Production 2       9-12       Sem/.5         Advanced Video Production       10-12       Year/1         Broadcast Journalism/TV Production 1       9-12       Sem/.5         Broadcast Journalism/TV Production 2       9-12       Sem/.5         Yearbook       9-12       Year/1         BUSINESS       9-12       Sem/.5         Broadcast Media       9-12       Sem/.5         Introduction to Entrepreneurship: School Based Business Operations       Concurrent Enrollment       11-12       Sem/.5         Introduction to Business       Concurrent Enrollment       9-12       Sem/.5         Introduction to PC Applications       Concurrent Enrollment       9-12       Sem/.5         Marketing 1: Principles of Marketing       Concurrent Enrollment       11       Year/1         Marketing 2: Sports & Entertainment/Social Media       Concurrent Enrollment       12       Year/1         Marketing CO-OP: School Based Business—Retail       12       Year/1         Personal Finance       Concurrent Enrollment       <	VISUAL ARTS CONT.			
Photography 1         9-12         Sem/.5           Photography 2         10-12         Sem/.5           Video Production 1         9-12         Sem/.5           Video Production 2         9-12         Sem/.5           Advanced Video Production 1         10-12         Year/1           Broadcast Journalism/TV Production 1         9-12         Sem/.5           Broadcast Journalism/TV Production 2         9-12         Sem/.5           Yearbook         9-12         Year/1           BUSINESS         8         Sem/.5           Broadcast Media         9-12         Sem/.5           Introduction to Entrepreneurship: School Based Business Operations         Concurrent Enrollment         11-12         Sem/.5           Introduction to Business         Concurrent Enrollment         9-10         Sem/.5           Introduction to PC Applications         Concurrent Enrollment         9-10         Sem/.5           Marketing 1: Principles of Marketing         Concurrent Enrollment         11         Year/1           Marketing 2: Sports & Entertainment/Social Media         Concurrent Enrollment         12         Year/1           Marketing CO-OP: School Based Business—Retail         12         Year/1           Personal Finance         Concurrent Enrollment	Painting		10-12	Sem/.5
Photography 2	Advanced Painting		10-12	Sem/.5
Video Production 1         9-12         Sem/.5           Video Production 2         9-12         Sem/.5           Advanced Video Production         10-12         Year/1           Broadcast Journalism/TV Production 1         9-12         Sem/.5           Broadcast Journalism/TV Production 2         9-12         Sem/.5           Yearbook         9-12         Year/1           BUSINESS         Smodeast Media         9-12         Sem/.5           Introduction to Entrepreneurship: School Based Business Operations         Concurrent Enrollment         11-12         Sem/.5           Introduction to Business         Concurrent Enrollment         9-10         Sem/.5           Introduction to PC Applications         Concurrent Enrollment         9-10         Sem/.5           Marketing 1: Principles of Marketing         Concurrent Enrollment         11         Year/1           Marketing 2: Sports & Entertainment/Social Media         Concurrent Enrollment         12         Year/1           Marketing CO-OP: School Based Business—Retail         12         Year/1           Personal Finance         Concurrent Enrollment         10-12         Sem/.5           FAMILY AND CONSUMER SCIENCES         Concurrent Enrollment         10-12         Sem/.5           Culinary Arts 1 <td< td=""><td>Photography 1</td><td></td><td>9-12</td><td>Sem/.5</td></td<>	Photography 1		9-12	Sem/.5
Video Production 2       9-12       Sem/.5         Advanced Video Production       10-12       Year/1         Broadcast Journalism/TV Production 1       9-12       Sem/.5         Broadcast Journalism/TV Production 2       9-12       Sem/.5         Yearbook       9-12       Year/1         BUSINESS       Sem/.5       Sem/.5         Broadcast Media       9-12       Sem/.5         Introduction to Entrepreneurship: School Based Business Operations       Concurrent Enrollment       11-12       Sem/.5         Introduction to Business       Concurrent Enrollment       9-10       Sem/.5         Introduction to PC Applications       Concurrent Enrollment       9-12       Sem/.5         Marketing 1: Principles of Marketing       Concurrent Enrollment       11       Year/1         Marketing 2: Sports & Entertainment/Social Media       Concurrent Enrollment       12       Year/1         Marketing CO-OP: School Based Business—Retail       12       Year/1         Personal Finance       Concurrent Enrollment       10-12       Sem/.5         FAMILY AND CONSUMER SCIENCES       10-12       Sem/.5         Culinary Arts 1       9-12       Sem/.5         Design Seminar       9-12       Sem/.5         Fashion Design	Photography 2		10-12	Sem/.5
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Broadcast Journalism/TV Production 2  Yearbook  9-12  Year/1  BUSINESS  Broadcast Media  9-12  Sem/.5  Introduction to Entrepreneurship: School Based Business Operations  Concurrent Enrollment  11-12  Sem/.5  Introduction to PC Applications  Concurrent Enrollment  9-10  Sem/.5  Introduction to PC Applications  Concurrent Enrollment  9-12  Sem/.5  Marketing 1: Principles of Marketing  Concurrent Enrollment  11  Year/1  Marketing 2: Sports & Entertainment/Social Media  Concurrent Enrollment  12  Year/1  Marketing CO-OP: School Based Business—Retail  Personal Finance  Concurrent Enrollment  10-12  Sem/.5  FAMILY AND CONSUMER SCIENCES  Child & Adolescent Development  10-12  Sem/.5  Culinary Arts 1  Design Seminar  9-12  Sem/.5  Fashion Design & Merchandising 1  Interpersonal Relationships  10-12  Sem/.5  Interpersonal Relationships	Advanced Video Production		10-12	Year/1
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Introduction to PC Applications  Concurrent Enrollment  Marketing 1: Principles of Marketing  Concurrent Enrollment  11 Year/1  Marketing 2: Sports & Entertainment/Social Media  Concurrent Enrollment  12 Year/1  Marketing CO-OP: School Based Business—Retail  Personal Finance  Concurrent Enrollment  10-12 Sem/.5  FAMILY AND CONSUMER SCIENCES  Child & Adolescent Development  10-12 Sem/.5  Culinary Arts 1  Design Seminar  9-12 Sem/.5  Fashion Design & Merchandising 1  Interpersonal Relationships  10-12 Sem/.5  Interpersonal Relationships	Introduction to Entrepreneurship: School Based Business Operations	Concurrent Enrollment	11-12	Sem/.5
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Marketing 2: Sports & Entertainment/Social Media  Concurrent Enrollment  12 Year/1  Marketing CO-OP: School Based Business—Retail  Personal Finance  Concurrent Enrollment  10-12 Sem/.5  FAMILY AND CONSUMER SCIENCES  Child & Adolescent Development  10-12 Sem/.5  Culinary Arts 1  Design Seminar  9-12 Sem/.5  Fashion Design & Merchandising 1  Interpersonal Relationships  10-12 Sem/.5	Introduction to PC Applications	Concurrent Enrollment	9-12	Sem/.5
Marketing CO-OP: School Based Business—Retail  Personal Finance  Concurrent Enrollment  10-12  Sem/.5  FAMILY AND CONSUMER SCIENCES  Child & Adolescent Development  10-12  Sem/.5  Culinary Arts 1  Design Seminar  9-12  Sem/.5  Fashion Design & Merchandising 1  Interpersonal Relationships  10-12  Sem/.5	Marketing 1: Principles of Marketing	Concurrent Enrollment	11	Year/1
Personal Finance Concurrent Enrollment 10-12 Sem/.5  FAMILY AND CONSUMER SCIENCES  Child & Adolescent Development 10-12 Sem/.5  Culinary Arts 1 9-12 Sem/.5  Design Seminar 9-12 Sem/.5  Fashion Design & Merchandising 1 10-12 Sem/.5  Interpersonal Relationships 10-12 Sem/.5	Marketing 2: Sports & Entertainment/Social Media	Concurrent Enrollment	12	Year/1
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Design Seminar 9-12 Sem/.5 Fashion Design & Merchandising 1 10-12 Sem/.5 Interpersonal Relationships 10-12 Sem/.5	Child & Adolescent Development		10-12	Sem/.5
Fashion Design & Merchandising 1 10-12 Sem/.5 Interpersonal Relationships 10-12 Sem/.5	Culinary Arts 1		9-12	Sem/.5
Interpersonal Relationships 10-12 Sem/.5	Design Seminar		9-12	Sem/.5
	Fashion Design & Merchandising 1		10-12	Sem/.5
Interior Design 1: Residential 10-12 Sem/.5	Interpersonal Relationships		10-12	Sem/.5
	Interior Design 1: Residential		10-12	Sem/.5

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
PHYSICAL EDUCATION/HEALTH			
HEALTH EDUCATION			
Health		10-12	Sem./.5
Health - Hybrid		11-12	Sem./.5
ADVENTURE PROGRAM			
Adventure Challenge Course (ACC)		9-12	Sem/.5
Adventure Outdoor Ed (AOE)		9-12	Sem/.5
Adventure Water Sports (AWS)		9-12	Sem/.5
Adventure Leader Training (ALT)		9-12	Sem/.5
Adventure Leader - Includes Adventure Challenge Course; Adv. Outdoor Ed.; & Adv. Water Sports		10-12	Sem/.5
FITNESS BASED ACTIVITIES			
Fitness/Aerobic Training		9-12	Sem/.5
Lifeguard Training & Swim Conditioning		11-12	Sem/.5
Personal Fitness		11-12	Sem/.5
Weight Training 1		9-12	Sem/.5
Weight Training 2		10-12	Sem/.5
Advanced Fitness (Weight Training)		9-12	Sem/.5
Dance		9-12	Sem/.5
Yoga		10-12	Sem/.5
INDIVIDUAL SPORT ACTIVITIES			
Individual Sports		9-12	Sem/.5
Peer Mentor P.E.		10-12	Sem/.5
Peer Mentor Swim Fitness		10-12	Sem/.5
TEAM SPORT ACTIVITIES			
Team Sports		9-12	Sem/.5
Lifeguard Training		9-12	Sem/.5

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
STUDENT ACHIEVEMENT SERVICES			
ENGLISH			
Elements of CP English 9		9	Year/1
Elements of CP English 10		10	Year/1
Elements of CP English 11		11	Year/1
Elements of CP English 12		12	Year/1
Elements of Film and Literature	REACH	11-12	Sem/.5
Elements of Multicultural Literature	REACH	11-12	Sem/.5
ILC English		9-12	Year/1
Practical English		9-12	Year/1
SOCIAL STUDIES			
Elements of American Government		11-12	Sem/.5
Elements of Economics 1		11-12	Sem/.5
Elements of Economics 2		11-12	Sem/.5
Elements of Psychology	REACH	10	Year/1
Elements of Sociology 1		11-12	Sem/.5
Elements of Sociology 2		11-12	Sem/.5
Elements of United States History		9-12	Year/1
Elements of World History		10-12	Year/1
ILC Social Studies		9-12	Year/1
Practical Social Studies		9-12	Year/1
MATH			
CP Algebra 1		9-12	Year/1
CP Geometry		10-12	Year/1
Elements of CP Algebra 1		10-12	Year/1
Elements of CP Geometry		11-12	Year/1
Elements of Integrated Algebra/Geometry		9-12	Year/1
ILC Math		9-12	Year/1
Practical Math		9-12	Year/1
SCIENCE			
Biology		10-12	Year/1
Physical Science		9	Year/1
ILC Science		9-12	Year/1
Practical Science		9-12	Year/1
FINE ARTS			
Arts Exploration		9-12	Sem/.5
Life Skills Fine Arts	REACH	10-12	Sem/.5
Practical Technology		9-12	Sem/.5
PHYSICAL EDUCATION/HEALTH			
Adaptive P.E.		10-12	Sem/.5
Adaptive Swim Fitness		9-12	Sem/.5
Elements of Physical Education	REACH	9-12	Sem/.5
ILC Health		9-12	Sem/.5
Practical Health		9-12	Sem/.5

COURSE TITLE	LEVEL	GRADE LEVEL(S)	TERM/ CREDIT
SAS CONTINUED			
ELECTIVES			
Academic Support Lab		9-12	Sem/.5
Practical Work Applications		9-12	Sem/.5
Students Supporting Students		9-12	Sem/.5
SPECIAL COURSES (GENERAL ELECTIVE CREDIT)			
Office Assistant		9-12	Sem/.5
Peer Ambassadors		12	Year/1
Student Senate		9-12	Year/1
Students Supporting Students		11-12	Sem/.5
Teacher Assistant		9-12	Sem/.5
COUNSELING SEMINARS AND SUPPORT COURSES			
ADVISORY (9, 10, 11, 12)		9-12	Year/.25
AVID (9, 10,11, 12)		9-12	Year/l
Freshman Enrichment Seminar		9	Sem/.5
Sophomore Enrichment Seminar		10	Year/1
Junior Enrichment Seminar		11	Sem/.5
E.P.I.C. COURSES			
Medical Volunteer		10-12	Sem/.5

# **AP CAPSTONE PROGRAM**

AP Capstone is a program based on two yearlong AP courses: AP Seminar and AP Research. The courses were developed at the request of higher education professionals who saw a need for a systematic way for high school students to begin mastering the following skills before college. Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting.

Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma TM. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate TM.

#### \*ADVANCED PLACEMENT-SEMINAR

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: None

AP Seminar is part one of the AP Capstone program. This course engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. The course will prepare students for the AP Seminar Exam, which consists of three elements: a) a team project and presentation, b) an individual research-based essay and presentation, and c) an end-of-course exam.

\*Students may participate in AP seminar without continuing to AP research

ADVANCED PLACEMENT -RESEARCH

Grade Level(s): 10-12 Credit: 1
Prerequisite: Passing grade in \*AP Seminar

Term: Year

AP Research is part-two of the AP Capstone program. In AP Research, students have an opportunity to design, plan, and conduct yearlong research-based investigation of a topic that interests the student. Students will document the research process with a portfolio to demonstrate their ability to apply a scholarly understanding of real-world problems and issues. In addition, students will learn how to understand research methodology, employ ethical research practices, and access, analyze, and synthesize information to build, present, and defend an argument. Students will be able to choose one of the following for their research-based investigation: dig deeper into a topic studied in an AP course, work across academic areas with an interdisciplinary topic, or study a new area of interest (which might be of interest to study at the college level). Upon conclusion of the course, the AP Exam will consist of two elements: 1) a 4,000 to 5,000 word academic paper, 2) a presentation with an oral defense.

# **ENGLISH**

#### **DIRECTIONS FOR REGISTRATION:**

#### **Grade Nine:**

• You must take one full-year course as a freshman: CP English 9, English 9H or CP Humanities 9: American Studies. Your present English teacher will recommend which level (CP English 9, English 9H) to take based on your test scores.

#### **Grade Ten:**

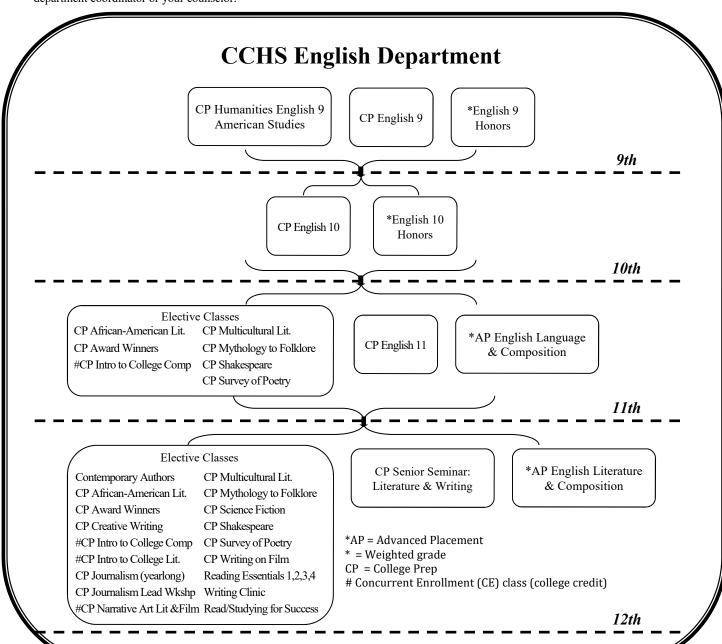
• You must take one full-year course as a sophomore: CP English 10, English 10H or CP Humanities 10: World Studies. Your present English teacher will recommend which level (CP English 10, English 10H) to take based on your test scores and performance in 9th grade English.

#### **Grade Eleven:**

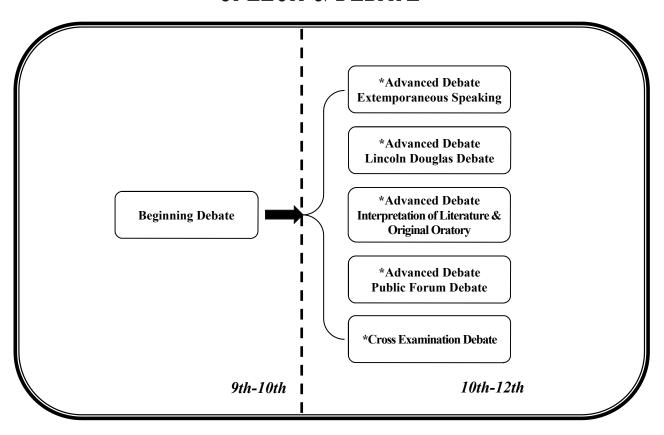
• You must take one full-year course as a junior: CP English 11, AP Language and Composition, or two semester courses.CP Introduction to College Composition is required if you choose this option. Your present English teacher will recommend which level CP or AP you must take based on your test scores and performance in 10th grade English.

#### **Grade Twelve:**

You must take one full year course or two one-semester courses during your senior year. Please note that some English electives might
not meet entrance requirements for some colleges/universities. Generally, colleges and universities will accept all courses which have
significant writing and/or literature components. If you have questions concerning the following courses, please ask the English
department coordinator or your counselor.



# SPEECH & DEBATE



- ⇒ Beginning Debate is the prerequisite class where students learn the speaking, critical thinking and research skills required for all advanced debate classes.
- ⇒ Students must be enrolled in a speech/debate class to participate on the Speech & Debate team.
- ⇒ After completing Beginning Debate, students, in consultation with Debate teachers, choose a primary event and enroll in the appropriate Advanced Debate class.

NOTE: Courses designated with \*asterisk receive a weighted grade

#### \*ADVANCED DEBATE HONORS

Grade Level(s): 10-12 Credit: 1 Term: Year

Prerequisite: Teacher approval

An honors course and an extension of Beginning Debate. This course is cocurricular and students are required to participate in competitive speech and debate activities. Teacher approval is required. Areas of intensive study include Lincoln-Douglas, Public Forum Debate, Original Oratory, Extemporaneous Speaking and Interpretation of Literature. This course earns English credit but does not meet the English requirement for graduation.

# \*ADVANCED PLACEMENT LANGUAGE AND COMPOSITION Grade Level(s): 11 Credit: 1 Term: Year Prerequisite: English 10H or test placement/Teacher recommendation

AP Language and Composition combines an important preparation for AP Literature and Composition in the senior year with a thorough preparation for taking the AP Language and Composition examination in May of the junior year. The course combines the study of major literary elements found in works of the 18th to 21st centuries with the study of rhetorical forms and stylistic devices found in nonfiction passages. Students will develop critical reading and critical thinking skills along with analytical expository writing skills. Writing in -class essays in response to essay prompts from previous AP Lang/Comp exams constitutes a significant aspect of this challenging course.

#### \*ADVANCED PLACEMENT LITERATURE AND COMPOSITION Grade Level(s): 12 Credit: 1 Term: Year Prerequisite: None

In AP Literature and Composition, students develop critical reading and critical thinking skills through the close reading of novels, plays, short stories, and poetry from the 16th to the 21st centuries. Students focus on the relationship between the author's artistic use of literary techniques and the deeper meaning of the works. In May, students are expected to take the AP Literature and Composition exam that tests for the reading and writing skills expected at the end of the college freshman year. Writing outside papers and in-class essays of literary analysis constitute a significant aspect of this challenging course.

#### \*CROSS-EX DEBATE HONORS

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Beginning Debate and teacher approval

This honors class is competitive in its nature. Teacher approval is required. This course is co-curricular and students are required to participate in competitive speech and debate activities. Students will focus on the national cross examination topics and public policy issues. They will research both affirmative and negative sides of the topic. Emphasis is on research, logic, writing critique briefs, use of evidence, speaking, and cross examination techniques. This course earns English credit but does not meet the English requirement for graduation.

#### \*ENGLISH 10 HONORS

### Grade Level(s): 10 Credit: 1 Term: Year Prerequisite: Teacher Recommendation/Test placement

English 10H is a one-year course that expands the student's understanding and appreciation of American, English and continental literature. Course content emphasizes critical thinking skills in both reading and writing. Expository essays, creative writing assignments, and a library paper are included in the writing program that continues the focus on the writing process.

#### \*ENGLISH 9 HONORS

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: Teacher Recommendation/Test placement

English 9H is a one-year course emphasizing the development of essential skills in reading, writing, speaking, and listening. The content includes an introduction to the various literary styles, vocabulary, applied grammar, and the structure of paragraphs and short essays. The pre-writing, writing, and revising process is stressed throughout the year.

#### **BEGINNING DEBATE**

Grade Level(s): 9-10 Credit: 1 Term: Year Prerequisite: None

An introduction to the theory of debate and discussion techniques will be the focal point of this class. It will include the theory of group process and the devel-opment of leadership skills. Research, reasoning, organization of ideas, and oral presentation are a few of the areas that will be developed. Competitive debate and speech will be introduced and the students will have the opportunity

to become members of the team. This course earns English credit but does not meet the English requirement for graduation.

#### **CP ENGLISH 9**

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: Teacher Recommendation/Test placement

CP English 9 is a one-year course emphasizing the development of essential skills in reading, writing, speaking, and listening. The content includes an introduction to the various literary styles, vocabulary, applied grammar, and the structure of paragraphs and short essays. The pre-writing, writing, and revising process is stressed throughout the year.

#### **CP ENGLISH 10**

Grade Level(s): 10 Credit: 1 Term: Year Prerequisite: Teacher Recommendation/Test placement

CP English 10 is a one-year course that expands the student's understanding and appreciation of American, English and continental literature. Course content emphasizes critical thinking skills in both reading and writing. Expository essays, creative writing assignments, and a library paper are included in the writing program that continues the focus on the writing process.

#### **CP ENGLISH 11**

Grade Level(s): 11 Credit: 1 Term: Year Prerequisite: Teacher Recommendation/Test placement

CP English 11 concentrates on strengthening the student's skills in writing with emphasis on developing a subject in depth and refining writing style. Literature-based writing assignments emphasize critical analysis and argumentative defenses of thesis positions. Students study a wide range of literary types - novels, short stories, poetry, and drama, both contemporary and classic - that reflect their diverse cultural heritage.

#### CP AFRICAN AMERICAN LITERATURE

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

This course will introduce historical and contemporary perspectives from African Americans through their literature. The objective of the class will be to analyze various genres of literature created during four eras of African American history starting with the Harlem Renaissance. All assignments will help students improve their reading, writing, and analytical skills in preparation for college success. Juniors must also register for CP Introduction to College Composition with this elective.

#### **CP AWARD WINNERS**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

This course will introduce students to popular genres in contemporary literature through the study of award-winning authors and novels in areas such as mystery, biography, western, horror and crime thriller. Assignments will be designed to improve reading comprehension, build vocabulary, and strengthen writing skills. Juniors must also register for CP Introduction to College Composition with this elective

#### **CP CREATIVE WRITING**

Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: None

In this class, students will study, write, and revise poems, short stories, and/or short plays in a workshop situation. Weekly writing assignments and journals emphasize the skills applicable to writing creatively in various genres.

### CP HUMANITIES ENGLISH 9: AMERICAN STUDIES CP HUMANITIES 9: AMERICAN STUDIES

(You must register for both courses.)

Grade Level(s): 9 Credit: 2 (1 Eng., 1 S.S) Term: Year Prerequisite: None

Humanities 9 is team taught by one English and one Social Studies teacher. The class meets during back-to-back periods and satisfies all English 9 and U.S. History 9 requirements. The class differs from traditional approaches in that history is taught thematically rather than chronologically. Works of historical fiction and narrative nonfiction, selected to promote reader interest, largely replace the traditional history textbook. Guest speakers, guest panels, and authors are engaged whenever possible. All English skills relating to the study of literature, writing, and mechanics are emphasized.

Students **must** register for both courses and courses will be scheduled in a back-to-back, two-period configuration.

#### CP INTRODUCTION TO COLLEGE COMPOSITION

Grade Level(s): 11-12 Credit: .5

Prerequisite: None

This course emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. The course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing. This course is required for juniors who choose to take the electives' option.

This course aligns with the Colorado Community College course Basic Composition 090 (ENG 090). Qualified students who pass the course with a C - or better will meet English entry requirements for all public colleges and universities in the state of Colorado. See page ix for more information.

#### CP INTRODUCTION TO COLLEGE LITERATURE

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Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: None

This course emphasizes the close study of fiction genres, including poetry, drama, and narrative (novellas and novels). Students will read and interpret a variety of texts in detail, work extensively with literary devices in the context of their contribution toward textual meaning, and study and practice elements of writing effective literary analysis.

This course aligns with the Colorado Community College course Introduction to Literature 115 (LIT 115). Students enrolled in this course will complete college-level work during their senior year of high school. Students who earn a C- or better in the class will receive 3 community college credits. These are guaranteed transfer credits to public colleges and universities in Colorado. See page ix for more information.

#### CP JOURNALISM (Union Street Journal)



Grade Level(s): 9-12 Credit: .5 Eng./.5 Elective Term: Year Prerequisite: None

This year-long course will explore interviewing techniques, hard news writing, feature news writing, research, editorial writing, and investigative reporting. In addition, the course will explore word processing and desk top publishing skills and basic newspaper layout and design skills. Students will produce the Union Street Journal newsmagazine and website as part of this course. Students will earn .5 elective credit for the first semester and .5 English credit for the second semester. Students can only earn the .5 English credit if they enroll in the class before or during 1st semester and remain in the class through 2nd semester. This course is repeatable due to participation in USJ, but only for elective credit.

#### CP JOURNALISM LEADERSHIP WORKSHOP



Grade Level(s): 10-12 Credit: .5 Prerequisite: CP Journalism

Term: Sem

This semester course is open to students who are dedicated to advancing their journalistic and graphic design skills and leadership experiences. Students in this course are the editorial board members of the Union Street Journal—the public forum of CCHS-and are responsible for the reportage, design, layout, production, and distribution of the USJ; additionally, editors are responsible for monthly reporting and writing. Workshop students will be instructed in the elements and process of graphic design and are expected to explore, expand, and experiment with the tools of both print and digital design and production, two of which include Adobe's Photoshop and InDesign on the HP platform.

Beyond assembling his or her own portfolio for assessment, students are responsible for entering the USJ in at least two competitions during a school year. This course runs concurrently with Journalism, so that editors and staff writers can effectively collaborate in the production of the USJ. Both courses are co-curricular and have required reading. Journalism Leadership Workshop can earn a student either a .5 Fine Art or English Department core requirement. This class can be repeated with approval from instructor for elective credit.

#### CP MULTICULTURAL LITERATURE

Grade Level(s): 11-12 Credit: .5 Term: Sem **Prerequisite: None** 

This course will introduce historical and contemporary perspectives of the roles minorities and women have played. Using fiction, non-fiction, formal poetry, essays, and film, students will gain an understanding of the achievements, contributions, and myths of these groups so that they will not be limited by social and political mores. Students will read, discuss, view, and write about issues and concerns appropriate for the college-bound student. Juniors must also register for CP Introduction to College Composition with this elective.

#### CP MYTHOLOGY TO FOLKLORE-ORAL TRADITION

Grade Level(s): 11-12 Credit: .5

Prerequisite: None

Term: Sem

Over the course of the semester, students will explore the dynamics of oral tradition from the ancient world to the modern-day via the story systems of myth and folklore. Through a study of Greek and other mythologies, Homer's *The Odyssey*, fairy tales, and urban legend, the course will explore the reasons behind and within our storytelling. Students will examine the historical and social context of mythology and folklore, with a particular focus on the psychological content (i.e. conscious vs. unconscious influence on content, meaning of archetypes as universal patterns within stories, etc.). Students will begin with the Greek system of mythology followed by the exploration of fairy tales collected by the Brothers Grimm, and finish the semester examining the concept of legends and urban legends in recent history as well as in our contemporary world. Throughout the semester, students will also have the opportunity to research and learn about mythology and folklore from a variety of cultures around the world and from throughout time. Students should expect frequent reading assignments as well as assessments such as quizzes, tests, essays, and projects.

#### CP NARRATIVE ART IN LITERATURE AND FILM

(Dual credit is available through the University of Colorado at Denver)

Credit: .5 (3 College credits) Grade Level(s): 12

Term: Sem

Prerequisite: CP English 11

This course asks students to explore how stories determine who we are. Everything people do fits into a narrative pattern, evident everywhere from TV news to memory to daily schedules. College-level reading paired with the study of film narratives will guide students to analyze how literary and cinematic style create meaning in stories. Through guided discussions and a variety of challenging writing assignments, students are encouraged to think critically about how stories shape who we are and how we view our experiences. If students wish to receive university credit, they are responsible for paying a tuition fee to CU.

**CP SCIENCE FICTION** (Science Fiction, Fantasy and Horror) Grade Level(s): 12 Credit: .5 Term: Sem

Prerequisite: None

This senior elective course recognizes and explores the literary merit of these given genres and the mature, thought-provoking ideas that they present. The literary curriculum changes from semester to semester as the students will participate in the selection of titles via a democratic process. Over the course of the semester, the class will read at least one work of each of the genres. Through a series of thought-provoking discussions as well as creative and analytical writing, students will explore the ways these authors analyze society and individuals.

#### CP SENIOR SEMINAR: LITERATURE AND WRITING

Grade Level(s): 12 Credit: 1 Term: Year Prerequisite: None

Literature Survey: A Senior Seminar is designed to provide college-bound seniors with a rigorous year-long survey of significant literary works. The course will focus on developing writing skills necessary for college within a literary context. The writing component will emphasize strategies for analytic and expository essays. The literature component will include a survey of works from the Renaissance to contemporary. Using fiction, non-fiction, drama, poetry, and film, students will gain an understanding of important theories, themes, and movements. In addition to literary texts, students will explore readings in literary criticism, history, and social sciences.

#### CP SHAKESPEARE

Grade Level(s): 11-12 Credit: .5 Term: Sem **Prerequisite: None** 

This course includes a close examination of a limited number of Shakespeare's major plays, at least one from each of these three areas (tragedy, comedy, history). Additional plays and the sonnets will be examined as time permits. The course emphasizes Shakespeare's knowledge of human nature and his unique poetic and dramatic idiom. The course provides for various kinds of writing experience on a regular basis. Juniors must also register for CP Introduction to College Composition with this elective

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#### CP SURVEY OF POETRY

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

Survey of Poetry, a semester-long course, will be devoted to studying British and American poetry from the sixteenth century to the present. Poets will be studied chronologically within their \*Appropriate literary periods. Interpretive focus will be on historical context and reader-response criticism. Juniors must also register for CP Introduction to College Composition with this elective

#### **CP WRITING ON FILM**

Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: None

A study of film as literature, art form, and medium of communication through active viewing, reflective response through reaction papers, formal essays, discussion, and gradual acquisition of ability to judge quality. Emphasis will be placed on furthering students' composition skills. Reaction papers and essays will constitute the major percent of the final grade

#### **READING ESSENTIALS 1**

Grade Level(s): 9-10 Credit: .5 Term: Sem Prerequisite: Nelson Denny Scores/Counselor Recommendation

Reading Essentials 1 is an intensive intervention class which provides support for students who enter high school at risk for failure due to poor reading comprehension and critical thinking skills. Students qualify for these classes based on standardized test scores. Participation is not limited by English level placement. Reading Essentials must be taken in conjunction with a regular English class. If a student in Reading Essentials 1 is not reading at grade level at the end of the semester, he or she will be placed in Reading Essentials 2. This course earns elective credit only.

#### **READING ESSENTIALS 2**

Grade Level(s): 9-10 Credit: .5 Term: Sem Prerequisite: Nelson Denny Scores/Counselor Recommendation

Reading Essentials 2 is an intensive intervention class which provides support for students who enter high school at risk for failure due to poor reading comprehension and critical thinking skills. Students qualify for these classes based on standardized test scores. Participation is not limited by English level placement. Reading Essentials must be taken in conjunction with a regular English class. If a student in Reading Essentials 2 is not reading at grade level at the end of the semester, he or she may be placed in Reading Essentials 3. This course earns elective credit only.

#### **READING ESSENTIALS 3**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Nelson Denny Scores/Counselor Recommendation

Reading Essentials 3 is an intensive intervention class which provides support for students who enter high school at risk for failure due to poor reading comprehension and critical thinking skills. Students qualify for these classes based on standardized test scores. Participation is not limited by English level placement. Reading Essentials must be taken in conjunction with a regular English class. If a student in Reading Essentials 3 is not reading at grade level at the end of the semester, he or she will be placed in Reading Essentials 4. This course earns elective credit only.

#### **READING ESSENTIALS 4**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Nelson Denny Scores/Counselor Recommendation

Reading Essentials 4 is an intensive intervention class which provides support for students who enter high school at risk for failure due to poor reading comprehension and critical thinking skills. Students qualify for these classes based on standardized test scores. Participation is not limited by English level placement. Reading Essentials must be taken in conjunction with a regular English class. This course earns elective credit only.

#### READING AND STUDYING FOR SUCCESS

Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: Teacher or counselor recommendation

This course is highly recommended for students who want to learn how to study more effectively, prepare for tests, and better comprehend what they read.

WRITING CLINIC

Grade Level(s): 12 Credit: .5 Term: Sem

**Prerequisite: None** 

This course is intended to help the senior student who wishes to improve his/her mechanical skills, practical writing skills, academic writing skills, and non-fiction reading skills.

# **SOCIAL STUDIES**

To meet district graduation requirements, students must take three (3) credits in social studies including one (1) full credit in United States History and one-half (.5) credit in American Government.

The following course of study is highly recommended:

1 credit....AP US History (with required placement exam), CP US History or US History (9th grade)

1 credit....AP World History, CP World History or World History (10th grade)

½ credit....AP US Government, CP American Government or American Government (11th – 12th grade)

**Freshmen** should enroll in AP US History (with required placement exam), CP US History, CP Humanities 9, or US History. CP US History is also offered in the 11th grade for those students who have not yet earned the required credit(s) for US History.

Sophomores should enroll in AP World History, CP World History, CP Humanities 10, or World History or AP European History.

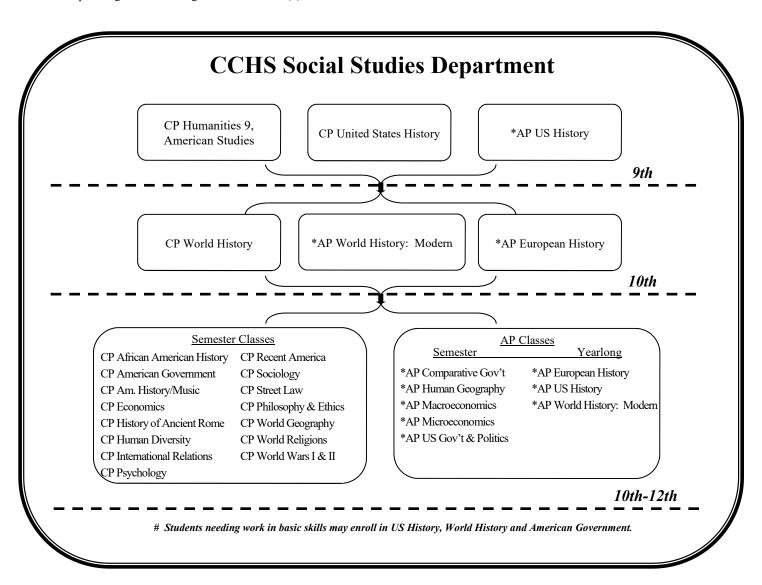
Juniors and seniors must choose from the following elective courses:

Please note that with the exception of AP US History, electives are NOT open to freshmen and most are not open to sophomores.

American Government	<b>CP International Relations</b>	CP World Geography	*AP Human Geography
CP African American History	CP Philosophy	CP World Religions	*AP Macroeconomics
CP American Government	CP Psychology	CP World Wars I & II	*AP Microeconomics
CP American History through Music	CP Recent America	*AP Comparative Government	*AP US History
CP Economics	CP Sociology	*AP United States Government	*AP World History: Modern

CP History of Ancient Rome CP Street Law \*AP European History

Students planning to attend college should take four (4) credits in Social Studies.



### \*ADVANCED PLACEMENT -COMPARATIVE GOVERNMENT AND POLITICS

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: None

This class is the equivalent to a one semester college course in comparative political systems. Students analyze documents and data, and write logical essays as a means of mastering the subject. As a result, students gain an understanding of the origins, beliefs, divisions, role of citizens, framework, and forces of change in political systems throughout the world. Students are expected to take the AP Comparative Government and Politics exam in the spring.

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This is a college-level course in European history from the Renaissance to the present. The assigned text and readings will be lively, sophisticated, and challenging. Students analyze primary sources and write expository essays as a means of mastering the subject matter. Cause and effect relationships are emphasized. This class is ideal for students who have keen interests in history, enjoy stimulating discussions and debates, and are curious to learn about the political, economic, and intellectual origins of contemporary Western civilization and it's relationship to the world. Students are expected to take the AP European History exam in the spring .

### \*ADVANCED PLACEMENT HUMAN GEOGRAPHY

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

This class is an introduction to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students study the nature and perspective of geography, population factors, cultural patterns and processes, the political organization of states, rural and agricultural land use, industrialization and economic development and urbanization. They employ spatial concepts and landscape analysis to study human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Students are expected to take the AP Human Geography exam in the spring.

# \*ADVANCED PLACEMENT MACROECONOMICS Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Successful completion of AP Microeconomics

The purpose of an AP course in macroeconomics is to give students a thorough understanding of the basic principles of economics that apply to economic growth and productivity as well as the policy tools used to impact the economy. It places primary emphasis on economic indicators such as inflation, unemployment, and GDP growth while also incorporating international trade into the domestic economic analysis. Students are expected to take the AP Macroeconomics exam in the spring.

#### \*ADVANCED PLACEMENT-MICROECONOMICS

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

This class is equivalent to a one semester college course in microeconomics. The course covers the concepts of supply and demand, the workings of a firm, factors of production, efficiency, and the role of the government in our economy. The course will apply these concepts to current events and issues. Students are expected to take the AP Microeconomics exam in the spring.

### \*ADVANCED PLACEMENT -UNITED STATES GOVERNMENT AND POLITICS

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

This class is the equivalent to a one semester college course in United States government. Students analyze documents and data, and write logical essays as a means of mastering the subject. As a result, students gain an understanding of the foundation of U.S. government, political beliefs, the role of parties and interest groups, the institutions of the national government, public policy, and civil rights and civil liberties. Students are expected to take the AP United States Government and Politics exam in the spring. This course, combined with the AP Comparative Government and Politics course spring semester, allows a student to earn one advanced placement credit in government. This course meets the American Government requirement for graduation.

# \*ADVANCED PLACEMENT - UNITED STATES HISTORY Grade Level(s): 9, 11 - 12 Credit: 1 Term: Year Prerequisite: 9th graders must be concurrently enrolled in Honors

Prerequisite: 9th graders must be concurrently enrolled in Honors English 9. (Incoming 9th grade students will be required to take a placement exam for this course.)

This class is equivalent to a full year college course in U.S. History. Through taking this course, students will gain a good overall understanding of the people, events, movements and ideas that have shaped American society. Students will read a variety of historians' perspectives as well as primary source documents and will interpret and incorporate them into persuasive essays as well as discuss them in class. As a result, students will not only gain a thorough knowledge of the history of our nation but will hone the writing skills necessary for success in college. Students are expected to take the Advanced Placement U.S. History exam in the spring. This course meets the U.S. History requirement for graduation.

#### \*ADVANCED PLACEMENT - WORLD HISTORY: MODERN Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: None

This class is equivalent to a full-year college course in World History. It focuses primarily on the past eight hundred years of the global experience. Students analyze interaction among major societies, change and continuity across the world, the impact of technology and demography, social and gender structures, cultural and intellectual developments, examination of Holocaust and Genocide, and changes in states. Students are expected to take the AP World History exam in the spring.

#### **CP AFRICAN AMERICAN HISTORY**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Sophomores must be concurrently enrolled in or successfully completed a world history course.

This course will look at the historical experience of African Americans from the time of the end of the Civil War through the present. Students will study the economic, political, and social history of African Americans throughout the time-period. Students can expect to gain background information from readings, lectures, and class discussions. The class will examine how major topics and events such as segregation and the Jim Crow Era, World Wars I and II, the Great Depression, and the Civil Rights Movement impacted African Americans. It will also include the study of modern topics and events related to race and their impact on the broader society.

#### **CP AMERICAN GOVERNMENT**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: U.S. History is recommended

This course helps students attain civic competency. It focuses on the vital role of the citizen in a democratic society. Students gain an understanding of government in the United States and participate actively in the political process. This course covers the foundation of American government, political behavior, the legislative, executive, and judicial branches, and Colorado state and local government. This class focuses on participation in government and political behavior. Current events and issues concerning government in the United States will be integrated throughout the course.

#### CP AMERICAN HISTORY THROUGH MUSIC

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: Successful completion of Year of US History, or Humanities 9 American Studies or US History 11-12 Sem 1, US History 11-12 Sem 2.

Music represents thoughts, feelings, and cultural changes over time that have his -toric value. The primary focus will be U.S. history, with music playing an instru-mental role in providing insight into the times. Students will analyze songs to determine their cultural impact. Lectures, group work, Socratic Seminars, and multiple research projects will be completed

#### **CP ECONOMICS**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

This course introduces students to the terminology and philosophy of modern day economics. Topics range from the individual's role in the market place to the conglomerate's role in the world economy.

#### CP HISTORY OF ANCIENT ROME

Grade Level(s): 10-12 Credit: .5 Term: Sem

Sophomores must be concurrently enrolled in or successfully completed a world history course.

**Prerequisite: None** 

This course will examine the history of a civilization that began as a small settlement of traders and eventually conquered the Mediterranean World: from its mythological foundations dating back to the Trojan War through its wars against Carthage, gladiators, assassination, betrayal, and beyond. Through discussion, lecture, debate, mock trial and other methods, students will learn about the art, culture, religion, military strategy, government, politics and much more, of Ancient Rome. Students will learn what made Rome so successful as well as what led to its decline.

### CP HUMANITIES 9: AMERICAN STUDIES and 1 CP HUMANITIES ENGLISH 9: AMERICAN STUDIES

(You must register for both courses.)

Grade Level(s): 9 Credit: 2(l Eng., 1 S.S.) Term: Year Prerequisite: None

Humanities 9 is team taught by one English and one Social Studies teacher. The class meets during back-to-back periods and satisfies all English 9 and U.S. History 9 requirements. The class differs from traditional approaches in that history is taught thematically rather than chronologically. Works of historical fiction and narrative nonfiction, selected to promote reader interest, largely replace the traditional history textbook. Guest speakers, guest panels, and authors are engaged whenever possible. All English skills relating to the study of literature, writing, and mechanics are emphasized.

Students must register for both classes, and courses will be scheduled in a back-to-back, two-period configuration.

#### **CP INTERNATIONAL RELATIONS**

Open to: Grades 10-12 Credit: .5 Course length: 1 sem. Prerequisite: Sophomores must be concurrently enrolled in or

successfully completed a world history course.

What are the major challenges to U.S. national security? How will the U.S. deal with global issues such as terrorism, nationalism, climate change, disease, space exploration and the threat from weapons of mass destruction? What should be U.S.'s national defense strategy? How do the U.S. and multinational organizations advance their goals? Featuring simulations, discussions and projects, the course will explore these essential questions and more.

#### CP PHILOSOPHY

Grade Level(s): 11-12 Credit: .5 Term:Sem
Prerequisite: None

Philosophy is the study of the universe based on logical principles instead of relying on authority, religion, and tradition. Invented by the ancient Greeks, philosophy is concerned with how the universe works, how we know what we think we know, and the best way to live your life. This is a discussion based class. There are no textbooks and no conventional tests...grades are based heavily on participation in debates and discussions. Students will be assigned several take home essays

#### CP PSYCHOLOGY

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

CP Psychology investigates the individual and the three core and interacting processes of humans: thinking, acting and emoting. This course aims to help students understand both themselves and others better. The broad psychological perspectives for this course include biological, behaviorist, cognitive, psychodynamic, humanistic and sociocultural. Specific topics of investigation include learning theory, cognition and memory, the physiological bases of behavior and mental activity, motivation, social perceptions and social influence, personality theory, stress and conflict, and psychological disorders.

#### **CP RECENT AMERICA: 1945 TO PRESENT**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Sophomores must be concurrently enrolled in or successfully completed a world history course.

This course will study major social, political, and military events which occurred in American History during the period 1945 to present. Examples of topics covered are the Cold War through the fall of the Soviet Union, the Korean War, the Vietnam War, the culture of the 1950s and 1960s, the Kennedy assassination, the Watergate scandal, the Civil Rights movement, and the Women's Rights movement. The United State's role in the Middle East during this time period and the events of 9/11 will also be studied in depth. Current events related to these topics will also be studied in order to understand their impact on our world today.

#### CP SOCIOLOGY

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: None

CP Sociology is the study of how humans behave as groups. Topics covered in this class include race, gender and gender orientation, deviance (crime), and poverty. Our goal is to better understand the problems and struggles of the world in an effort to help correct them. We will learn how to view the world through the lens of sociological theory and how to best utilize social research methods.

#### **CP STREET LAW**

Grade Level(s): 10-12 Credit: .5 Term: Sem

**Prerequisite:** Sophomores must be concurrently enrolled in or successfully completed a world history course.

This is a practical law class that emphasizes current issues. Students analyze constitutional cases and debate them in class. These cases include such topics as hate speech, obscenity, freedom of religion, affirmative action, search and seizure and student rights.

#### **CP UNITED STATES HISTORY**

Grade Level(s): 9 Credit: 1 Term: Year

Prerequisite: None

Colorado state law requires that students complete a full year of US History. Covering the entire span of U.S. History from the Reconstruction until the present day, this course is required of all ninth grade students. Besides mastering the content of history, students develop communication skills.

#### CP UNITED STATES HISTORY - 11/12 Semester 1

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: None

Colorado state law requires that students complete a full year of US History. This course is for students who need to complete the first semester of United States History, which covers the pre-colonial era through reconstruction.

#### CP UNITED STATES HISTORY - 11/12 Semester 2

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: None

Colorado state law requires that students complete a full year of US History. This course is for students who need to complete the second semester of United States History, which covers from World War I to the present.

#### CP WORLD GEOGRAPHY

Grade Level(s): 11-12 Credit: .5 Term: Sem

**Prerequisite: None** 

This course examines the importance of geography in understanding the world. The course is organized on the basis of the five themes of geography: location, place, relationships within places, movement, and regions. Geography skills and contemporary geography-related issues are taught..

#### CP WORLD HISTORY

Grade Level(s): 10 Credit: 1 Term: Year

Prerequisite: None

This course surveys world history from the emergence of civilization to the present day. Students will study political, social, economic and cultural forces including but not limited to the Holocaust and genocide in both Western and non-Western civilizations.

#### **CP WORLD RELIGIONS**

Grade Level(s): 11-12 Credit: .5 Term: Sem

**Prerequisite: None** 

By comparing and contrasting the major religions of the world, students gain a greater appreciation of such basic questions as: Who am I? Where did I come from? What is the meaning of life? Is there life after death? Guest speakers will share their perspectives.

#### CP WORLD WAR I AND II

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Sophomores must be concurrently enrolled in or successfully completed a world history course.

This course will study World War I and World War II from the perspective of multiple countries. The causes, effects, battles and politics of the wars will be studied in depth - examining strategy, international relations, the home front, and the personal experiences of the soldiers. The evolution of technology, propaganda and genocide of the time period will also be examined. As a result of taking this course, students will also develop an understanding of the impact of the World Wars on current international affairs.

#### AMERICAN GOVERNMENT

Grade Level(s): 11-12 Credit: .5 Term: Sem

**Prerequisite: Teacher recommendation** 

For juniors and seniors who read significantly below grade level, the course focuses upon the institutions and policies of American government and how they impact our lives. Students also learn about politics, including the media, interest groups, public opinion, elections, and campaigns. This course aims to create thoughtful, participatory citizens. The course uses high interest materials and emphasizes development of skills in reading, writing, vocabulary, spelling, and data analysis.

#### UNITED STATES HISTORY

Grade Level(s): 9 Credit: 1 Term: Year

**Prerequisite: Teacher recommendation** 

For freshmen who read significantly below grade level, this course focuses upon the important people, events, and ideas that have shaped American history. The course uses high interest materials and emphasizes development of skills in reading, writing, vocabulary, spelling, and document analysis.

#### WORLD HISTORY

Grade Level(s): 10 Credit: 1 Term: Year Prerequisite: Teacher recommendation

For tenth grade students who read significantly below grade level, the course focuses on covering the entire span of World History from the emergence of civilization to the present day. The course uses high interest materials and emphasizes development of skills in reading, writing, spelling and communication.

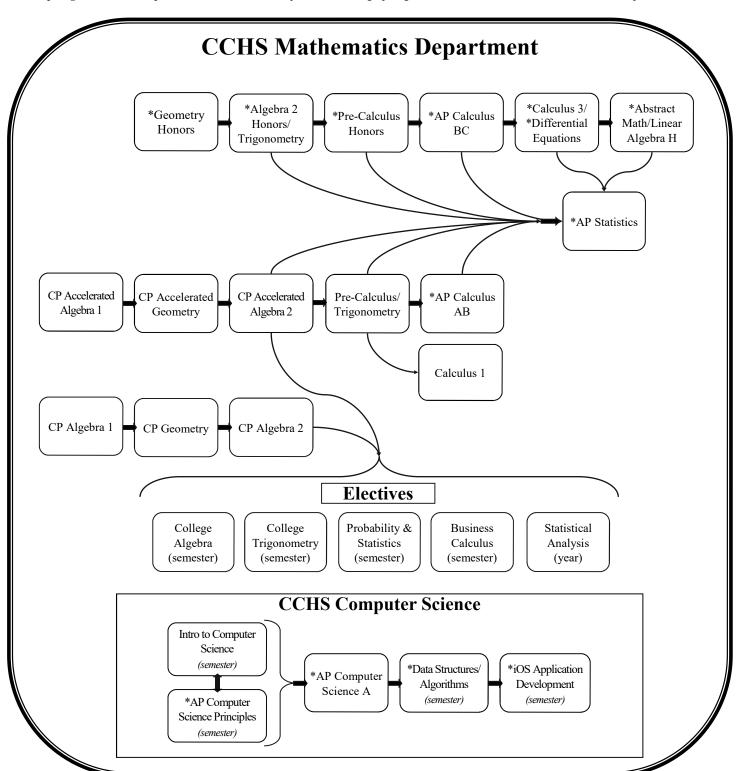
# **MATHEMATICS**

It is the desire of the mathematics department of Cherry Creek High School that all students will be able to take four years of high school mathematics. . Each student should be allowed to follow a sequence of courses, which will enable him or her to advance to their individual potential. The nature of the material and the degree to which it will be covered should determine individual placement.

A college-bound student with an intended major requiring advanced mathematics (such as physics, chemistry, biology, or mathematics), should consider the honors level courses Geometry H, Algebra 2/Trigonometry H, Pre Calculus H, AP Calculus BC. Entry to this level after Geometry H is not recommended.

All in-district students need a teacher recommendation for course placement.

Graphing Calculator Requirements: Students are required to have a graphing calculator for all courses. A TI-83 or TI-84 is preferred.



#### \*ABSTRACT MATH/LINEAR ALGEBRA HONORS

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Completion of/or concurrent enrollment in Calculus 3/Differential Equations or Coordinator/Teacher approval

ABSTRACT MATH: Abstract math is an introduction to pure mathematics centering on the structure of proof and linking computational processes with logical structure and provides a strong foundation for collegiate study into the mathematical sciences. Establishing logic, proof language, induction, and set theory the course will explore combinatorics, number theory, groups, rings, fields and topology.

LINEAR ALGEBRA: Linear Algebra is central to nearly all mathematics and is a foundational necessity for the mathematical and engineering theoretical sciences. This course will follow a classic sequence through matrix algebra, determinants, vectors in two and three space, metric spaces, eigenvectors, linear transformations, and applications to differential equations among other mathematical models.

#### \*ADVANCED PLACEMENT-CALCULUS AB

Grade Level(s): 11-12 Credit: 1 Term: Year
Prerequisite: Pre-Calculus/Trigonometry or Pre-Calculus Honors

This class is a college level course for motivated students who have completed Pre-Calculus/Trigonometry or Pre-Calculus Honors. AP Calculus AB examines the theory of limits with selected methods and applications of differential and integral calculus. Students are expected to take the AP Exam given in the spring.

#### \*ADVANCED PLACEMENT-CALCULUS BC

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Pre-Calculus H

AP Calculus BC is considerably more extensive than AP Calculus AB and is recommended primarily for H-track Students. This course is a full-year college level course. Topics include limits and continuity, methods and applications of differentiation and integration of algebraic and transcendental functions and infinite series. Students are expected to take the AP Exam given in the spring. This course is equivalent to two semesters of college calculus; Calculus 1 and Calculus 2.

#### \*ADVANCED PLACEMENT-COMPUTER SCIENCE A

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Introduction to Computer Science or Instructor approval

This course is equivalent to a first semester college course in computer science. In this course, students will learn a subset of Java and program in an object-oriented paradigm as outlined by the College Board. Topics include arrays, Array List, standard Java classes and libraries, recursion, inheritance and polymorphism, and basic sorting and searching algorithms. Students will also be exposed to the basics of software engineering, including design and efficiency considerations, and testing strategies. Students are expected to take the AP Exam given in the spring. This course is a pre-requisite to Data Structures & Algorithms.

# \*ADVANCED PLACEMENT-COMPUTER SCIENCE PRINCIPLES Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Completion of Intro to Computer Science or

Prerequisite: Completion of Intro to Computer Science or Concurrent enrollment in Intro to Computer Science

This course is a one-semester multidisciplinary introductory course to computer science and the underlying principles of computation. In this course, students will learn the creative aspects of programing using Processing, a Java-based, visually-oriented language, to address real-world problems and relevant solutions. Topics to be covered in this course include abstractions, algorithms, large data sets, the internet, cybersecurity concerns, and computing impacts. This course earns fine arts credit only.

#### \*ADVANCED PLACEMENT STATISTICS

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: CP Accelerated Algebra 2 with a grade of at least a B or teacher recommendation

This course is a college level course for motivated students who have completed at least CP Algebra 2. Topics include exploratory analysis of data, planning a study and collection of data, producing statistical models using probability distributions, and statistical inference. Students are expected to take the AP Exam given in the spring.

#### \*ALGEBRA 2-TRIGONOMETRY HONORS

Grade Level(s): 9-11 Credit: 1 Term: Year Prerequisite: Geometry Honors

This course continues the progression of the honors mathematics program at Cherry Creek High School. It encompasses the concepts of CP Accelerated Algebra 2, College Trigonometry, Pre-Calculus, and added topics with the greater depth of knowledge expected from honors classes. Rigor and pace are

#### \*CALCULUS 3 HONORS

commensurate with the honors program.

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: AP Calculus BC

Topics of study in this course include vectors in the plane and in space, the dot and cross products, differentiation and integration of vector-valued functions, tangent and normal vectors, are length, curvature, partial differentiation, directional derivatives, Lagrange multipliers, multiple integration, line integrals, and Green's and Stokes' theorems.

#### \*DATA STRUCTURES and ALGORITHMS

Grade Level(s): 10-12 Credit: .5 Term: Sem

Prerequisite: AP Computer Science

This course is a college level course that is a follow-up to AP Computer Science. This course will cover additional data structures, which include, but are not limited to, arrays, lists, stacks, and queues, trees, and hash tables. This course will also expose students to basic algorithmic development techniques as related to the data structures studied. This course is a pre-requisite to iOS Application Development.

#### \*DIFFERENTIAL EQUATIONS HONORS

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: Calculus 3 Honors

This course will focus on various methods of solution for ordinary differential equations. The types of equation studies include first and second order equations, as well as first order, linear and non-linear systems. Methods of solution include various analytic techniques (separation of variables, integrating factors, Laplace transforms, etc.), slope fields, and Euler's method. Phase plane and eigenvector analysis are also considered.

#### \*GEOMETRY HONORS

Grade Level(s): 9-10 Credit: 1 Term: Year Prerequisite: Recommendation of 8th grade Algebra or CP Accelerated Algebra 1 teacher

Honors Geometry is a proof-based course that uses deductive reasoning to develop understanding of geometric topics. The course provides an in-depth investigation of topics such as congruence and similarity, polygons and parallel and perpendicular lines, right triangle trigonometry, and area and volume. One of the objectives is for the students to appreciate the use of logic and reasoning as a tool for problem solving. This class will provide opportunities for deep thinking and investigation. The course also builds and strengthens topics from Algebra such as systems of equations, solving quadratic and linear equations, probability, and simplifying radicals. The rigor and the pace of Honors Geometry will be a great introduction to the honors program here at Cherry Creek High School.

#### \*iOS APPLICATION DEVELOPMENT

Grade Level(s): 10-12 Credit: .5 Term: Sem
Prerequisite: Data Structures & Algorithms or Instructor approval
Other Courses students should consider: Drawing and Design 1 and 2,
AP Studio Art and AP 3-D Studio Art, Intro to Business, and Business
Law.

This course is a college level course that is a follow-up to Data Structures and Algorithms. It is designed to be an integrated course encompassing the disciplines of programming, graphic art, and business development. This course will teach the basics of iPhone and iPad application development. Students will be using the Objective-C language and will learn topics relevant to their applications, which may include but are not limited to game programming techniques and algorithms, design patterns, and editing graphics and sound. Lastly, students will become familiar with some of the business and legal issues involved with starting a business and managing intellectual property. **This course earns fine arts credit only.** 

#### \*PRE-CALCULUS HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Algebra 2/Trig Honors

This course is designed to prepare students for the AP Calculus class (or a college calculus class). The course combines Pre-Calculus topics such as functions, sequences and series, parametric and polar equations, logarithms and trigonometry with differential calculus topics including limits, continuity, differentiation techniques, related rates and max/min applications.

#### **BUSINESS CALCULUS**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: CP Algebra 2

Business Calculus is a course with broad applications in business, the biological sciences, psychology, sociology, economics and political science. Students intending to major in any of these disciplines should take this course. Its content includes matrices, Markov chains, linear programming, graph theory, finance, game theory, probability, logarithms, curve fitting, differentiation, and optimization. Technology, where applicable, will be used throughout the course.

#### CALCULUS 1

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Pre-Calculus with Trigonometry

Calculus 1 will continue to develop topics of differential calculus that were in Pre-Calculus with Trigonometry and introduce topics of integral calculus. Students will study all of the topics in a typical college Calculus 1 class including methods and applications of limits, continuity, derivatives and integrals.

#### COLLEGE ALGEBRA

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: CP Algebra 2

This course is a brief review of intermediate algebra, equations, inequalities, polynomial and rational functions and their graphs including local and global behavior, rational zero, factor and remainder theorems. The course explores a selection of topics from exponential and logarithmic functions including graphs, applications to real life models including solving complex exponential and logarithmic equations. Four (4) college credits are available through UCD for a fee.

#### **COLLEGE TRIGONOMETRY**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: CP Algebra 2

This course covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence. College credit is available through UCD for a fee.

#### CP ACCELERATED ALGEBRA 1

Grade Level(s): 9-11 Credit: 1 Term: Year Prerequisite: Grade 8 math with teacher recommendation

This course encompasses the fundamental concepts of algebra in a more rigorous manner than CP Algebra 1. The content of Algebra 1 deepens and extends students' understanding of linear, quadratic and exponential functions. Students will be able to compare and contrast these equations to identify and explore the underlying mathematical structures that they share. Additionally, students engage in methods for analyzing, solving and applying these functions. Students explore many examples of functions, including sequences, and analyze them graphically, numerically, symbolically, and verbally. In addition, students apply these models to data and analyze how well the model fits the data.

#### CP ACCELERATED ALGEBRA 2

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: CP Geometry or CP Accelerated Geometry

This course encompasses the fundamental concepts of algebra in a more rigorous manner that CP Algebra 2. Building on prior knowledge, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Functions are studied in relation to one another by analysis of multiple representations of functions with unrestricted domains, as well as those with restricted domains. Additionally, students extend their understanding of the

trigonometric ratios and circles from geometry, and use the coordinate plane to model periodic phenomena with trigonometry. Students further develop their statistical knowledge by exploring the interpretation of data following the Normal Distribution. This course will include all Common Core plus topics for Algebra 2.

#### CP ACCELERATED GEOMETRY

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Accelerated Algebra 1 or CP Algebra 1 teacher recommendation

This course encompasses the fundamental concepts of geometry in a more rigorous manner than CP Geometry. This course is an integrated course in plane, solid and coordinate geometry. Students will develop geometric concepts using both a formal deductive mathematical approach using proofs and an explorative inductive approach. The geometry of two and three dimensional figures is the focus, including work and analysis in the coordinate plane and an introduction to right triangle trigonometry and law of sines and cosines. This course will strengthen algebra skills while establishing a strong geometric background for further mathematics courses as well as for applications in technical areas and the sciences.

#### CP ALGEBRA 1

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Grade 8 math with teacher recommendation

This course encompasses the fundamental concepts of algebra and builds on the mathematics students learned previously. It is designed to provide a student the opportunity to master all of the topics of a C.P. Algebra 1 course, while providing extra support for students who have struggled with math in the past. The content of Algebra 1 deepens and extends students' understanding of linear and exponential relationships by contrasting them with each other, and identifying and exploring the underlying mathematical structures that they share. Students explore many examples of functions, including sequences, and analyze them graphically, numerically, symbolically, and verbally. Students apply linear models to data and analyze how well the model fits the data. Additionally, students engage in methods for analyzing, solving, and applying quadratic functions.

#### CP ALGEBRA 2

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: CP Geometry or Accelerated CP Geometry

This course encompasses the fundamental concepts of algebra and builds on the mathematics students learned previously. It is designed to provide a student the opportunity to master all of the topics of a CP Algebra 2 course, while providing extra support for students who have struggled with math in the past. Students in CP Algebra 2 develop a deeper understanding of all aspects of functions: graphing, analyzing, transforming, performing operations with, composing new functions, and solving equations using them. Functions studied include linear, quadratic, polynomial, exponential, logarithmic, rational, trigonometric and radical. Students further develop their statistical knowledge by studying the collection, analysis and interpretation of data, and the connections to probability. Throughout the year students strengthen their use of the Common Core Standard Math Practices, with a particular emphasis on making sense of problems and modeling with mathematics.

#### **CP GEOMETRY**

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: CP Algebra 1 or CP Accelerated Algebra 1

CP Geometry formalizes and extends students' geometric experiences from the middle grades. It is designed to provide a student the opportunity to master all of the topics of a CP Accelerated Geometry course, while providing extra support for students who have struggled with math in the past. Students will develop geometric concepts using an inductive and algebraic approach. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving toward formal mathematical arguments and proof. In this course, rigid and non-rigid transformations are the frame through which students build and prove the concepts of congruence and similarity. Previous experiences with proportional reasoning and the Pythagorean Theorem lead students to understand the trigonometry of right triangles in order to find unknown measures in general triangles. The geometry of two- and three-dimensional figures is the focus, including work and analysis in the coordinate plane.

#### **INTEGRATED ALGEBRA/GEOMETRY 1**

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: Grade 8 math with teacher recommendation

This course is a course designed for students who have struggled with math in middle school. It is designed to review and reinforce concepts presented in Math 8 and to introduce concepts from CP Algebra 1 and CP Geometry.

#### INTRO TO COMPUTER SCIENCE

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: CP Accelerated Algebra 1 with grade of B or higher

This course is a one-semester introductory course to computer science. In this course, students will learn the fundamentals of programming using Processing, a Java-based, visually-oriented language. Students will write programs that will draw pictures, run animations, and simulate basic 2-D games/applications. Topics to be covered in this course include variables, conditionals, loops, arrays, and classes. This course is a pre-requisite to AP Computer Science. This course earns fine arts credit only.

#### PRE-CALCULUS WITH TRIGONOMETRY

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: CP Accelerated Algebra 2

This course is designed to prepare students for the AP Calculus AB class (or a college calculus class). The course combines Pre-Calculus topics such as functions, logarithms and trigonometry with differential calculus topics including limits, continuity, differentiation techniques, related rates and max/min applications.

#### PROBABILITY AND STATISTICS

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: CP Algebra 2

This is an introductory course that is appropriate for all college-bound students. Probability is the basis for mathematical models of situations in the sciences; statistics is the art of gathering, analyzing, and making inferences from data. Topics include interpretation of statistical data, computation of probabilities of given events, frequency distributions, linear regression, normal distribution, probability, confidence intervals and hypothesis testing.

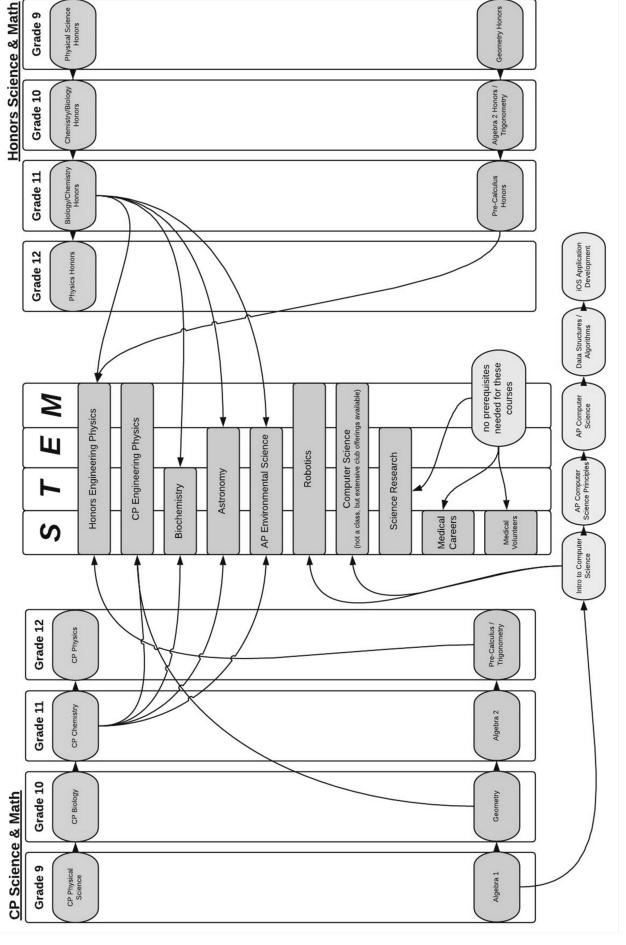
#### STATISTICAL ANALYSIS

Grade Level(s): 12 Credit: 1 Term: Year Prerequisite: CP Algebra 2/CP Accelerated Algebra 2

This is an introductory course in the summarization, analysis and interpretation of data in real world contexts, including medicine, psychology, economics and business. This course will provide an overview of data gathering techniques, descriptive statistics, linear regression, normal distributions, probability and inferential statistics as tools for drawing appropriate conclusions.

# **CCHS STEM Opportunities**

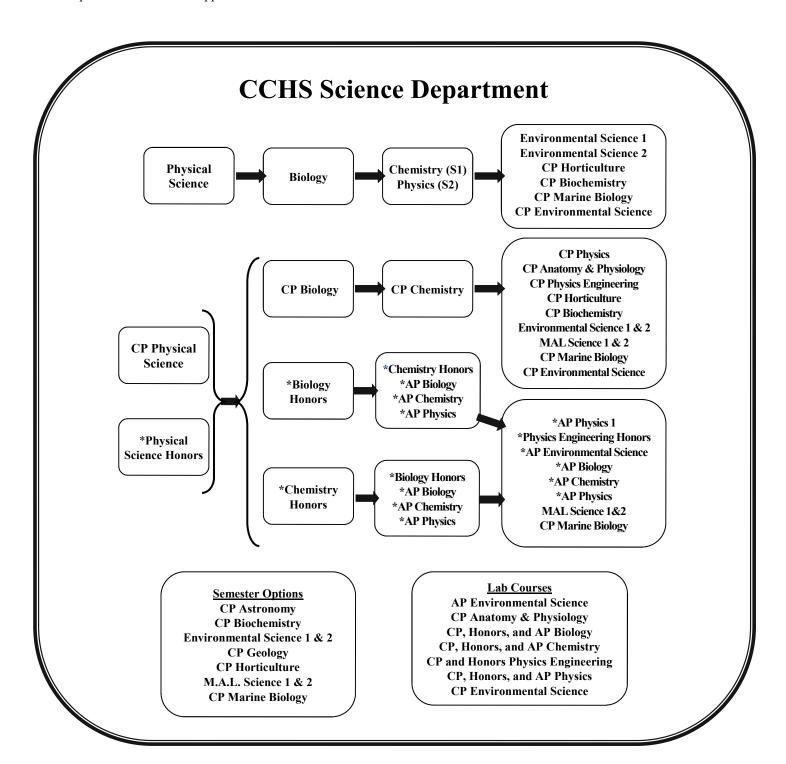
This flow chart shows CCHS courses that integrate Science, Technology, Engineering, and Mathematics. The central portion of the chart lists the courses across the STEM columns in accordance with their most heavily emphasized content. For example, Biochemistry combines principles of Science and Technology more so than those of Engineering or Mathematics. The most traditional Science and Math Department four-year pathways are listed to the left and right of the STEM columns, organized by CP and Honors levels. Overall, the chart is meant to provide ideas, and is not a formalized scope and sequence for students to follow. For more specific information, consult the Science and Math Department pages of the preregistration guide and speak with the department coordinators individually.



# **SCIENCE**

All students are required to successfully complete three years of science during their four years at Cherry Creek. Students need to take one of the following as a prerequisite course for subsequent courses in science: Honors Physical Science, CP Physical Science or Physical Science. To meet the state and district academic standards it is recommended that students take each of the following: biology, chemistry and physics.

When Level changing to a higher level class, students must meet minimum grade requirements and have Instructor or Department Coordinator approval.



#### \*ADVANCED PLACEMENT BIOLOGY

Grade Level(s): 11-12 Credit: 1.5 Term: Year Prerequisite: Chemistry H, CP Chemistry with an A.

An advanced course for those students who have demonstrated the interest and ability to study biological systems at greater depth. This course will emphasize the nature of laboratory investigation, and will introduce students to the foundations of living systems. The course covers the four "Big Ideas" as set forth by the College Board: evolution, the use of free energy in living systems, the importance of information storage and retrieval in living systems as an essential process of life, and the interactions between biological systems. The goal of the course is to allow students to develop an understanding of basic biological concepts, which will allow them to see that certain processes are inherent in all living systems, and apply their understanding of one system to novel scenarios. This course is especially recommended for those students who plan to study medicine or major in one of the biological sciences. Students are expected to take the AP Biology Exam in order to receive AP credit.

#### \*ADVANCED PLACEMENT CHEMISTRY

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: C or higher in Chemistry honors; B or higher in Biology Honors; A or higher in Honors Physical Science; A summer assignment is required for students who haven't yet completed a full year of chemistry.

This is a second year chemistry course designed to supplement and expand a student's background to the first year college level. The topics of kinetics, thermodynamics and electrochemistry will receive special emphasis. The concept of equilibrium will be explored in depth, especially as it applies to the acid-base and solubility equilibria of aqueous solutions. Students will be expected to take the AP Chemistry Exam given in the spring.

#### \*ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

Grade Level(s): 12 Credit: 1 Term: Year Prerequisite: B or better in any two of physics, chemistry, and biology (at CP, H or AP level, one of which may be simultaneous) or by permission of Instructor

This interdisciplinary course explores the impact of human decisions on the environment. It is not a course in environmentalism, but rather a science-oriented course with a laboratory component, designed to meet the expectations of the College Board. Energy sources, population, soil and water conservation, biodiversity, and pollution are just a few of the major topics explored. In each area, economic, sociological, and political concerns will be discussed and related to scientific conclusions. Students will be expected to take the AP exam in the spring.

#### \*ADVANCED PLACEMENT PHYSICS C

Grade Level(s): 11-12 Credit: 1.5 Term: Year Prerequisite: Simultaneous enrollment in Calculus, (preferably BC) or by special permission of Instructor.

AP Physics C is a college-level, calculus-based introductory physics course that covers classical mechanics as well as electricity and magnetism in one year. Basic differential and integral calculus will be used and elements of both will be developed in the course as needed. This course includes a laboratory component and is taught in daily 1.5 period increments. Students will be thoroughly prepared to take the two corresponding AP exams in the spring.

#### \*ADVANCED PLACEMENT PHYSICS 1

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Completion of Pre-calculus/Trigonometry or Algebra 2H/Trig with a B or higher or Pre-calculus Honors with a C or higher

AP Physics 1 is a college preparatory course for students considering further training in the fields of science, mathematics, engineering, or medicine. Mathematical methods in algebra, graphing, modeling and problem solving will be applied to a variety of topics such as the mechanics of motion and force, rotational motion, electricity, magnetism and wave theory. Students will be prepared to take the AP Physics 1 exam in the spring.

#### \*ADVANCED SCIENTIFIC RESEARCH HONORS

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: High interest and achievement in math and science and permission of Instructor.

An independent study research program, which permits the student to select an area of research in mathematics or science. Students will arrange to attend a weekly meeting of the research group, design a research project, carry out experimentation, analyze the data and present the findings at the Denver Metropolitan Science Fair and the Colorado/Wyoming Junior Academy of Science Annual Meeting. Off campus research placements will be encouraged

and facilitated. Students will also have weekly individual conferences with their supervising teacher.

#### \*BIOLOGY HONORS

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: A or higher in CP Physical Science; B or higher in Honors level science course.

This course is designed for 10th, 11th and 12th grade students and emphasizes the role of research in our understanding of biological systems. Throughout the course students will be exposed to the fundamental biological principles that serve as the foundation for current exploration into unknown, or little understood, processes. Students will develop an understanding of the complex nature of biological systems, both through the critical analysis of current research articles and through their own original research. Emphasis will also be placed on the importance of controlled experimentation in biological research, as well as on how to establish the significance of experimental results. Units of study will include: ecology, chemistry of life, cellular structure and function, genetics, evolution, classification, and human systems. This course involves the use of bio-statistics and students will use statistics to analyze data.

#### \*CHEMISTRY HONORS

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Grade B or better in all previous science or mathematical courses, 85% or higher in Physical Science Honors and meets the criteria of placement exam, or B or higher in Biology Honors.

This course is based on the theoretical concepts in chemistry. It emphasizes the mathematical approach to studying chemistry. This course is recommended for students who plan to continue their education in chemistry, engineering, physics, technical, medical, or other science-related fields.

#### \*PHYSICAL SCIENCE HONORS

Grade Level(s): 9 Credit: 1 Term: Year

Prerequisite: Enrollment in an honors-level math course (Geometry Honors or higher) is strongly encouraged. Students who have completed the equivalent of CP Accelerated Alg 1 with an 85% or higher may enroll with the permission of their current instructor.

This course is designed for 9th grade students with high mathematical ability who intend to pursue Honors and Advanced Placement biology, chemistry, and physics classes in high school. Basic astronomy, chemistry and physics concepts will be covered at an accelerated pace with heavy emphasis on laboratory work, mathematical applications, and problem solving. In addition, students' skills in communicating information clearly through the written word, mathematical equations and graphs will be stressed. Students will develop skills in using both computers and calculators to aid in collecting and organizing data. Daily preparation is required outside of class.

#### \* PHYSICS ENGINEERING - HONORS CONCURRENT

Note: Simultaneous registration in Physics/Engineering (Honors concurrent) in the period immediately following Engineering Physics Honors is required.

Grade Level(s): Grades 11 - 12 Credit: 1 Sci Honors for Phy/Eng. H & 1 Fine Arts (non H) for Eng/Phy - concurrent.

Term: Year

Prerequisites: Completion of Pre-calculus/Trigonometry with B or higher or Pre-Calculus Honors with a C or higher. CP Chemistry with a B or higher or Honors Chemistry with a C or higher.

Physics/Engineering-Honors Concurrent must be taken concurrently with Engineering/Physics Honors. This is a college preparatory course designed for students who are interested in exploring the various fields of engineering and technically related careers. The academic portion of the course uses algebra-based modeling, graphing, and engineering problem solving through an integrated approach in which mechanical, fluid, electrical and thermal topics are covered in each unit. Over 50 percent of the two-period course is spent doing lab experiments and engineering-related projects. Students learn the use of modern lab equipment such as oscilloscopes, lasers, and various sensors.

## **CP PHYSICS ENGINEERING/ENGINEERING PHYSICS** (You must register for both courses.)

Grade Level(s): 11-12 Credit: 2 1 Sci & 1 Fine Arts

Term: Year, 2 Periods

Prerequisite: Grade C or better in all previous science or mathematics courses, including CP Algebra and Geometry in 9th, 10th, or 11th grade.

Physics/Engineering is a college preparatory course designed for students who are interested in exploring the various fields of engineering and technically related careers. Each lab group (3 students max.) will use a computer to collect, store and plot data collected during lab experiments. Students will learn how to use modern lab equipment such as oscilloscopes, lasers, and strain gauges. Over fifty percent of class time is spent doing lab experiments. Lab groups will design and construct special projects each quarter.

Students must enroll in both courses: Engineering Physics and Physics Engineering, in order to receive proper credit.

#### **BIOLOGY**

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Physical Science or permission of Instructor

This course focuses on the fundamentals of Biology. The topics of study include cell chemistry of life, ecology, evolution, human systems and genetics. This course is not considered a laboratory science course.

#### **CHEMISTRY (Semester 1 only)**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Biology

The focus of this course is on the principle concepts of chemistry and the importance that chemistry plays in our world. It is designed to emphasize the scientific basis for solving key issues facing today's citizens, such as petroleum shortages and access to pure water. This course addresses the chemistry of subjects that are likely to influence the daily lives of the students and commonly centers upon topics in the news today. Laboratory safety, introduction to equipment, data analysis and investigation will all be heavily stressed.

#### CP ANATOMY AND PHYSIOLOGY

Grade Level(s): 11-12 Credit: 1 Term: Year
Prerequisite: Two previously completed years of science which
must include CP Biology; a third year of science, either completed or
being taken simultaneously, is also required, Chemistry is preferred;
or consent of Instructor.

Anatomy and Physiology is a college preparatory course designed for students with an interest in the human body and/or medical sciences. This course starts with a basic overview of cells and their components, as well as a review of the chemistry necessary to properly understand how cells and parts of the human body function. This course involves a mixture of lecture, lab work, and dissection. Material is delivered with the intention of preparing students to succeed in a college level science class. Daily preparation outside of class time is required.

#### CP ASTRONOMY (Semester 1 only)

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Simultaneous enrollment or completion of Chemistry or Physics and Algebra 2

This course is designed to give the student a greater appreciation for one of the most rapidly changing realms of science. The student will experience both observational and theoretical astronomy. Topics studied in this one semester course include: historical astronomy, astronomical instruments and their use, celestial orientation, and composition and measurement of interplanetary, interstellar, and intergalactic space. This course will require individual outside observation and measurement, as well as several scheduled class observational sessions in the evening.

#### CP BIOCHEMISTRY

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Successful completion or simultaneous enrollment in biology and chemistry.

This is a lab-based course focused on developing technical and lab-based skills through hands on application in fields including medicine, culinary arts, cosmetology, fermentation, and forensics. Students interested in applying scientific skills in their lives will fit well in this class.

#### CP BIOLOGY

Grade Level(s): 10-11 Credit: 1 Term: Year Prerequisite: Minimum grade of C in previous science class or permission of instructor. Simultaneously taking CP Algebra 1, CP Accelerated Algebra 1 or Geometry. This college preparatory biology course integrates the many areas of the life sciences and is recommended for those students who intend to pursue college studies or major in the biological sciences. The course emphasizes the role of humans in the biosphere and recent advances in biotechnology. Practical topics of biology as they relate to the human organism are covered. Daily preparation outside of class is required.

#### **CP CHEMISTRY**

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: CP Physical Science, CP Algebra 1 with C or higher. No less than C grade in any previous science course taken in 9th, 10th, 11th grade or permission of Instructor

This chemistry course provides a laboratory oriented approach to chemistry; many of the experiments involve practical topics that relate to students' everyday lives. Although some mathematics are involved, the course does not emphasize a mathematical approach and is oriented toward a blend of academic and applied concepts. Satisfactory completion of the course may be adequate preparation for a beginning college chemistry course. The student is graded on general understanding, presentation of ideas, laboratory techniques, and test performance.

#### CP ENVIRONMENTAL SCIENCE

Grade Level(s): 12 Credit: 1 Term: Year Prerequisites: Completion of biology or chemistry at any level

CP Environmental Science is a course focusing on the relationships between humans and the natural environment. This course's mission is to prepare students with the knowledge and skills to identify, analyze, and resolve environmental issues from an interdisciplinary perspective. This course will stress scientific literacy through application of problem-solving skills while encouraging reflection in the social sciences to broaden student perception of our role in global systems.

#### **CP GEOLOGY**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisites: Current enrollment in or completion of Chemistry.

This is a course that examines both physical and historical geology. This course covers the origin and development of the Earth. It will include an examination of the composition and structure of the earth and its internal and surface processes with applications to the environment, natural resources, and geologic hazards. Topics will include rock and mineral identification through physical and chemical techniques, the origin and evolution of landforms, geologic mapping, identification and uses of fossils. Emphasis will be placed on the geology of Colorado.

#### **CP HORTICULTURE**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisites: Successful completion of 1 semester of biology and 1 semester of chemistry.

This course is designed to develop knowledge and applicable hands-on skills in the following areas: basic botany, classification and identification of horticultural plants, the science of soils and other plant growing media, plant culture and propagation in greenhouse, landscape, and agricultural settings, turf grass management, and landscape maintenance and design. Developing and improving workplace skills as well as relative scientific theory will be emphasized.

#### **CP MARINE BIOLOGY**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Two years of science including Biology (any level)

This course is a comprehensive study of oceans and ocean systems. This course has an ecological emphasis with studies of marine biology, chemical oceanography, geological oceanography, and physical oceanography. The effects of human interaction and dependence on these systems will also be explored. This one semester course will expand student knowledge of science and apply it to marine science. This course is open to juniors and seniors.

#### CP PHYSICAL SCIENCE

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: Completion of or simultaneous enrollment in Algebra 1 or specific consent of department coordinator.

This course is designed for students with average to above average mathematical ability. This course is designed to prepare students for further study in Biology, Geology/Astronomy, Chemistry, and Physics. Topics of study include chemistry, earth science/astronomy, and physics with an emphasis placed on experimental design and scientific process skills. A major portion of the course is spent in laboratory work. Daily preparation outside of class is required.

#### **CP PHYSICS**

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Grade C or better in all previous science or mathematics courses, including CP Algebra 1 and Geometry taken in 9th, 10th or 11th grade.

CP Physics is a survey course for students who desire a liberal arts preparation for college studies but who may not be planning a career in the fields of science or technology. The essentials of classical mechanics as well as electricity and magnetism are developed with emphasis on conceptual understanding, laboratory experiments, and algebra-based problem solving.

# ENVIRONMENTAL SCIENCE 1 (1st Semester Only) Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: 1 credit Science and 1 credit Algebra, or CP Algebra 1

Environmental Science 1 is a course focusing on the relationships between humans and the general ecosystems in which we exist. Focusing primarily on environmental systems, the course will investigate how humans interact with, influence, and are influenced by our surroundings. This course's mission is to prepare students with the knowledge and skills to identify, analyze, and resolve environmental issues from an interdisciplinary perspective. This course will stress scientific literacy through application of problem-solving skills while encouraging reflection in the social sciences to broaden student perception of their role in the environment. Environmental Science 1 may be taken before or after Environmental Science 2.

# ENVIRONMENTAL SCIENCE 2 (2nd Semester Only) Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: 1 credit Science and 1 credit Algebra, or CP Algebra 1

Environmental Science 2 is a course focusing on the relationships between humans and the natural resources provided to us. This course will investigate how energy and materials supplied to us by our environment are utilized by humans and to what effect these uses have on our surrounds. This course's mission is to prepare students with the knowledge and skills to identify, analyze, and resolve environmental issues from an interdisciplinary perspective. This course will stress scientific literacy through application of problem-solving skills while encouraging reflection in the social sciences to broaden student perception of their role in the environment. Environmental Science 2 may be taken before or after Environmental Science 1.

#### **CP GEOLOGY**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Completion of Chemistry and CP Algebra 2

This is a course that examines both physical and historical geology. Topics studied will include mineral indentifi9catioin through physical and chemical techniques, the origin and evolution of land forms, geologic mapping, identification, and uses of fossils. Emphasis will be placed on the geology of Colorado.

#### INTRODUCTION TO SCIENCE RESEARCH

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: High interest and achievement in math and science.

This is an independent study research program for students new to the Science Research program at CCHS. In this program, students will select an area of research in mathematics or science. Students will then design a research project, carry out experimentation, analyze the data and present the findings at the Denver Science Fair and the Colorado/Wyoming Junior Academy of Science Annual Meeting. Off campus research placements will be encouraged and facilitated. Students will also have weekly individual conferences with their supervising teacher.

MAL SCIENCE 1 (1ST SEMESTER ONLY)

(Mutually Assisted Learning)

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Completed or simultaneously enrolled in two lab sciences through grade 11.

Students will be allowed to plan and teach science units which are several weeks in length to a mini-class of four or five elementary children. Training and supervision will be provided by a high school faculty member and the elementary teacher in whose classroom the student will be teaching. Training/feedback sessions will be held approximately once a week to plan and prepare the material to be taught. Students will spend the remainder of the time as an instructor in an elementary classroom. Weekly conferences will be held to assess and improve the student's teaching effectiveness. This course is recommended for students who are interested in the teaching field or working with children. Students may take MAL Science 1 either before or after MAL Science 2. A strict attendance and dress code policy are enforced.

#### MAL SCIENCE 2 (2ND SEMESTER ONLY)

(Mutually Assisted Learning)

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: Completed or simultaneously enrolled in two lab sciences through grade 11.

Students will be allowed to plan and teach science units which are several weeks in length to a mini-class of four or five elementary children. A high school faculty member and the elementary teacher in whose classroom the student will be teaching will provide Training and supervision Training/feedback sessions will be held approximately once a week to plan and prepare the material to be taught. Students will spend the remainder of the time as an instructor in an elementary classroom. Weekly conferences will be held to assess and improve the student's teaching effectiveness. This course is recommended for students who are interested in the teaching field or working with children. Students may take MAL Science 1 either before or after MAL Science 2. A strict attendance and dress code policy are enforced

#### **ROBOTICS & AUTOMATED SYSTEMS**

Grade Level(s): 9-12 Credit: .5 Science/.5 Fine Arts

Term: Year

Prerequisite: None

Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems. Students will earn .5 Science credit for the first semester and .5 Fine Arts credit for the second semester.

#### PHYSICAL SCIENCE

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: None

This is a freshman level course that focuses on the fundamentals of the following topics: astronomy, chemistry, physics, and the use of scientific inquiry as a method of learning. Concepts in this class will be integrated with math and writing skills. This course is not considered a laboratory science class.

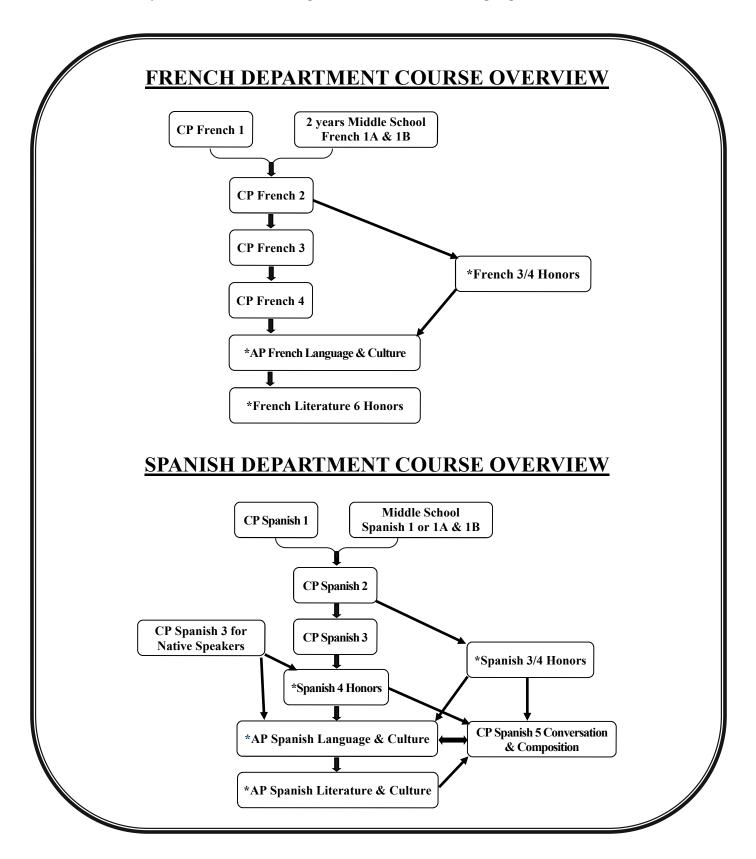
PHYSICS (Semester 2 only)

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Biology

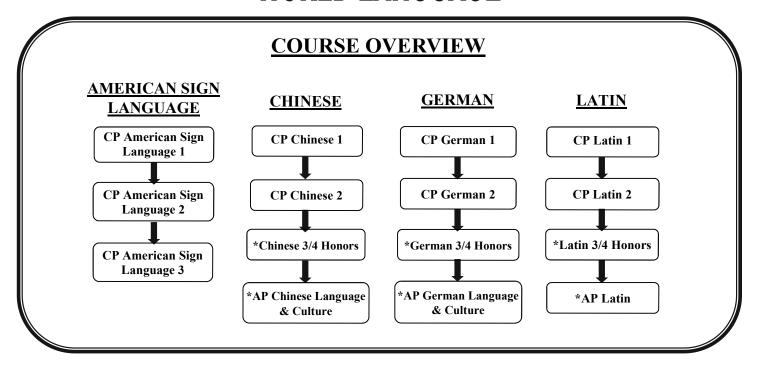
This course provides a concept-based approach to learning the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of principles studied. Laboratory experiments and computerbased exercises enhance and consolidate the understanding of basic physical principles and applications. Laboratory safety, introduction to equipment, analysis and investigation will be heavily stressed.

# **WORLD LANGUAGE**

World Language courses are designed for non-native speakers; however, <u>native speakers</u> may be given a diagnostic test and placed at appropriate levels if they wish to enroll. Likewise, students with prior study of a language outside the CCHS feeder system should contact the department coordinator to arrange a placement test.



# **WORLD LANGUAGE**



#### \*ADVANCED PLACEMENT—CHINESE LANGUAGE & CULTURE Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Three to Four years of Chinese and teacher recommendation, or permission of department coordinator

This course covers the equivalent of a second-year (or the fourth semester) college/university course in Mandarin Chinese. This course is designed to provide students with varied opportunities to further develop and achieve language proficiencies through studying various sources including textbooks and authentic materials. Students will develop knowledge of Chinese language and culture through intensive learning and the application of better communication skills. Emphasis is on interpersonal and presentational skills, interpretation of spoken and written Chinese, and knowledge of Chinese culture. Students are encouraged to take the AP Exam in May.

#### \*ADVANCED PLACEMENT - FRENCH LANGUAGE & CULTURE Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Three to four years of French and approval of French 4 or 3/4 H teacher, or permission of department coordinator

This course prepares students to complete the AP French Language and Culture exam in the spring. Themes of study recommended by College Board include: Personal and Public Identities, Science and Technology, Global Challenges, Beauty and Aesthetics, Family and Community, and Contemporary Life. Students develop interpretive skills of reading and listening through interaction with a variety of authentic sources. Speaking and writing skills are expanded in both presentational and interpersonal contexts. A review of grammar will also be included. The sophisticated nature of the content and critical thinking required in this course demand a high level of academic maturity. Since this is a college-level class, students will receive a weighted grade.

#### \*ADVANCED PLACEMENT - GERMAN LANGUAGE & CULTURE Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Three to Four years of German and teacher recommendation, or permission of department coordinator

The studies in this course are those required for students to prepare to take the AP Language Exam in the spring. Emphasis is on extensive authentic readings, oral and written reports and listening and speaking practice in the language lab.

#### \*ADVANCED PLACEMENT - LATIN

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Three to Four years of Latin and teacher recommendation, or permission of department coordinator

This course prepares students for the AP Latin exam in the spring. Students read, translate, analyze, and interpret Vergil's Aeneid and Caesar's Gallic War in the original Latin and study the cultural and historical context of the works.

#### \*ADVANCED PLACEMENT - SPANISH LANGUAGE & CULTURE

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Three to four years of Spanish and approval of Spanish 4 or 3/4 H teacher, or permission of department coordinator

Students continue to develop the communicative skills of reading, writing, speaking and listening within the context of the six curricular themes as set forth by College Board: Personal and Public Identities, Science and Technology, Beauty and Aesthetics, Family and Community, Global Challenges and Contemporary Life. Students review grammar, increase their vocabulary and improve their speaking proficiency through the study of primary sources from the Spanish-speaking world (articles, literary excerpts, popular music, newscasts, podcasts, etc.). Since this is a college-level class, *students receive a weighted grade.* The sophisticated nature of the content and the critical thinking required in this course demand a high level of academic maturity. Through successful completion of the course, students will be prepared to take the AP Spanish Language and Culture Exam in the spring.

#### \*ADVANCED PLACEMENT-SPANISH LITERATURE & CULTURE Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: AP Spanish Language and teacher recommendation, or permission of department coordinator

Students are prepared to take the AP Literature exam in the spring. They will read and analyze a variety of authors, genres, periods, and themes in the literature from Spain and Latin America. A review of grammar to improve writing skills and reading comprehension is included.

#### \*CHINESE 3/4 HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Chinese 2 and teacher recommendation, or permission of department coordinator

Increased emphasis is placed on speaking and writing skills, expanding the student's ability to respond appropriately in various situations. Students will master certain grammatical structures, further their skills in reading and writing Chinese characters, and expand their knowledge of Chinese culture. Students will be challenged to increase their vocabulary, comprehend learning content in depth, and continue to apply their communication skills in given topics with depth. Students will demonstrate their communication skills in proficiency assessments.

#### \*FRENCH LITERATURE 6 HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year

Prerequisite: AP French Language and teacher recommendation, or permission of department coordinator

This course is an introduction to representative works of French and francophone prose, poetry, and drama from a variety of historical periods. Students enrolling in this course must have already successfully completed AP French Language and Culture. In addition, we explore a number of noteworthy films that complement the literature.

#### \*FRENCH 3/4 HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP French 2 and teacher recommendation, or permission of department coordinator

This course is a compilation of CP French 3 and 4. It is designed for those students in French 2 who plan to continue the following year to AP French Language and Culture. The course is conducted in French and focuses on mastery of all four skills and the grammar studied in French 3 and 4. Students will also study the civilization and culture of France and other francophone countries through the reading of one French novel.

#### \*GERMAN 3/4 HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP German 2 and teacher recommendation, or permission of department coordinator

This course is accelerated due to the quantity of material covered. It is designed for students of German 2 who plan to continue the following year to AP German Language and Culture. German 3 and German 4 materials are covered as well as advanced readings and culture.

#### \*LATIN 3/4 HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Latin 2 and teacher recommendation, or permission of department coordinator

This course completes the grammar instruction begun in Latin 1 and 2 and introduces students to reading authentic Latin literature, both prose and poetry. Students build proficiency in translating, comprehending, and interpreting Latin literature and continue to expand their knowledge of ancient Roman history and culture.

#### \*SPANISH 3/4 HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Spanish 2 and placement test, or permission of department coordinator

This full year course is a compilation of CP Spanish 3 and 4 and is designed for students who have excelled in Spanish 2. The rigor and pace are considerably greater than that of CP Spanish 3 and 4 when taken as separate classes. Throughout the year, students will build on previously learned skills as they strengthen their ability to communicate in the target language. They will improve their ability to speak, write and understand what they read and hear. Various components of the cultures of Spanish-speaking countries will be studied. The class is conducted in Spanish and students are prepared to continue on to AP Spanish Language and Culture upon completion.

#### \*SPANISH 4 HONORS

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Spanish 3, CP Spanish 3 for Native Speakers or equivalency exam.

Spanish 4 Honors is designed to refine previously learned vocabulary and grammatical skills, as well as develop higher order thinking skills in the target language. The course explores a variety of comprehensive themes and structures. Students will interpret and analyze a variety of short films, poems, stories and plays. In addition, students will advance their verbal fluency as they actively engage in daily class discussion, and present both formally (presentational mode) and informally (interpersonal mode) about diverse cultural topics and societal issues. Students will also improve writing proficiency skills as they explain, persuade, or convey experiences to a particular audience. This course will illuminate the learner about the diversity of the Spanish-speaking world and its innumerable contributions to modern society. This class is conducted almost entirely in Spanish. Due to the advanced, college-level nature of the course, grades will be weighted.

#### **CP AMERICAN SIGN LANGUAGE 1**

Grade Level(s): 10-12 Credit: 1 Term: Year

Prerequisite: None

This course is designed to develop the fundamentals of communicative competence in American Sign Language (ASL), including both receptive and expressive skills. Students will develop knowledge of ASL sentence structures and syntax, finger spelling, numbers, basic vocabulary, and common phrases. Receptive skills focus on whole word/phrase recognition and finger spelling/number comprehension in context. Expressive skills focus on the development of speed, clarity, and fluency. The course provides a basic study of sign concepts/origin and sign lexicon, as well as an introduction to Deaf culture and communities. Students are encouraged to confirm that their prospective colleges will accept ASL for their world language admissions requirement before choosing this language path.

#### **CP AMERICAN SIGN LANGUAGE 2**

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: CP American Sign Language 1 or equivalency exam/ permission of department coordinator.

Students will expand their knowledge of American Sign Language and increase their ability to communicate in ASL, by using a wider range of receptive and expressive skills. Receptive skills will focus on recognition of fingerspelling and numbers at a faster pace, as well as comprehension of longer phrases and full ASL conversations. Expressive skills will focus on facial expressions, increased vocabulary, classifiers, storytelling and fluency. Students will engage in more events in the Deaf community and further increase their knowledge of Deaf culture, history and education.

#### **CP AMERICAN SIGN LANGUAGE 3**

Grade Level(s): 10-12 Credit: 1 Term: Year
Prerequisite: CP American Sign Language 1 & 2 or equivalency
exam/permission of department coordinator

Each unit in ASL 3 builds upon the topics, vocabulary, and grammar introduced in ASL 1 & 2. ASL 3 will consist of ASL Literature, vocabulary review, narrative structure including proper transitions, additional grammar with advanced sentence structure, storytelling and the use of classifiers to describe people and objects with more detail. Students will also continue to learn appropriate cultural behaviors as they attend more events in the Deaf community, outside the classroom. In addition, students will read books about Deaf Culture and participate in voice off book discussions.

#### CP CHINESE 1

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: None

This is a challenging program designed for students with minimum Chinese language exposure or no previous ability in Mandarin Chinese. Students will develop the necessary study skills to learn this non-European, character-based, tonal language. Students develop all four skill levels of listening, speaking, reading, and writing. Students will learn the pinyin sound system, the four tones, and the proper stroke-order for writing a few hundred characters. Emphasis in the first year is placed on survival language, practical situations, and a basic knowledge of Chinese culture. Students are encouraged to speak basic Mandarin, write Chinese characters, and will demonstrate their skills in proficiency assessments . Students with some ability in speaking, reading, or writing Chinese may qualify for a higher level class. Please contact the Chinese teacher or department coordinator to arrange a placement test before preregistration to ensure correct placement.

#### **CP CHINESE 2**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Chinese 1

This course continues the studies of Chinese 1 with an added emphasis on the speaking ability and the organization of more complex sentences in Mandarin. Students build an active vocabulary, continue to memorize hundreds of characters, and enhance their cultural awareness. Students are expected to apply their communication skills in more practical situations in both speaking and writing formats, and will demonstrate their skills in proficiency assessments.

#### CP FRENCH 1

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: None

Proficiency-based materials and methods are used to achieve novice level basic language skills: listening, speaking, reading and writing. An introduction to the cultures of the French-speaking world is presented in the classroom materials as well as in supplementary activities.

#### CP FRENCH 2

## Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: C or better in previous French course.

This course builds on the skills students learned previously in French 1. Students will further develop listening, speaking, reading and writing skills. A number of authentic materials are used to provide a variety of in-class activities and to continue studying various francophone cultures. It is strongly recommended that students entering French 2 earn a C or better in their previous French course.

#### **CP FRENCH 3**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: C or better in previous French course.

In this course, there is a continued use of proficiency-based materials for further development in listening, speaking, reading and writing. Students will continue to study cultures of the French-speaking world, and will read a short novel. It is strongly recommended that students entering French 3 earn a C or better in their previous French course.

#### **CP FRENCH 4**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: C or better in previous French course

In this course, students will expand on their language skills and knowledge of previously studied themes and grammatical structures, with an emphasis on more sophisticated and detailed expression. Students will continue to study cultures of the French-speaking world, interpret and analyze a variety of short films, and read a novel in French. It is strongly recommended that students entering French 4 earn a C or better in their previous French course.

#### **CP GERMAN 1**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: None

The latest in proficiency-based materials and methods are used to achieve basic language skills of listening, speaking, reading, and writing in German. Students will learn German using technology, music, and hands on activities.

#### CP GERMAN 2

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP German 1

This course continues to use proficiency-based materials to further develop the skills of listening, speaking, reading and writing in German. German is the language of instruction in the classroom. Students will write short essays, read children's books and produce a short film in German.

#### GERMAN LANGUAGE DIPLOMA PREPARATION

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Enrollment in German 3/4H or AP German and approval of instructor

This course prepares students to take the "Deutsches Sprachdiplom I" in the areas of listening, reading, writing and speaking. Students will meet with the course instructor on an ongoing basis in order to prepare for the exam at the end of the semester.

This course also prepares students to take the "Deutsches Sprachdiplom II" in the areas of listening, reading, writing and speaking. Students will meet with the course instructor on an ongoing basis in order to prepare for the exam at the end of the semester. Pre-requisites are successful completion of the DSD I or approval by the instructor.

#### CP LATIN 1

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: None

Latin was the language of the Ancient Romans and evolved into the Romance languages (Spanish, French, Italian, Portuguese, and Rumanian). It is also at the root of approximately 60% of English words and therefore is tremendously useful in expanding one's English vocabulary. In Latin 1, students learn essential vocabulary and grammar in the context of Latin stories, as well as Greek and Roman mythology, ancient history, art, archaeology, and culture. Throughout the four-year Latin program, students are encouraged to make connections between Latin, English, and the Romance languages, and between ancient and modern cultures.

#### **CP LATIN 2**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Latin 1

This course builds upon the skills students learned in the previous year and maintains the consistent, interdisciplinary approach to language learning begun in CP Latin 1. Students continue learning vocabulary and grammar in the context of Latin stories and modified authentic texts. They also expand their knowledge of Greek and Roman mythology, ancient history, art, archaeology, and culture and continue making connections between Latin, English, and the Romance languages, and between ancient and modern cultures.

#### CP SPANISH 1

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: None

The latest in proficiency-based materials and methods are used to achieve basic language skills of listening, speaking, reading and writing in Spanish. The cultures of Spanish-speaking countries are incorporated.

#### **CP SPANISH 2**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Spanish 1 or the equivalent in middle school (1A and 1B or 8th grade Spanish 1).

This course builds on the skills students learned previously in CP Spanish 1. Throughout the year students are given the opportunity to further develop their ability to speak, write and understand what they read and hear utilizing more advanced structures. Additionally, the cultures of Spanish-speaking countries are incorporated. It is strongly recommended that students entering Spanish 2 earn a C or better in their previous Spanish class.

#### **CP SPANISH 3**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Spanish 2 or equivalency exam

Spanish 3 is designed to review previously learned concepts and introduce new grammar and vocabulary. Students continue to develop their ability to speak, write and understand what they read and hear. This is facilitated through the use of conversation, presentations and projects, while focusing on cultures of Spanish-speaking communities. Class is conducted primarily in Spanish. It is strongly recommended that students entering Spanish 3 earn a C or better in their previous Spanish class.

#### **CP SPANISH 3 FOR NATIVE SPEAKERS**

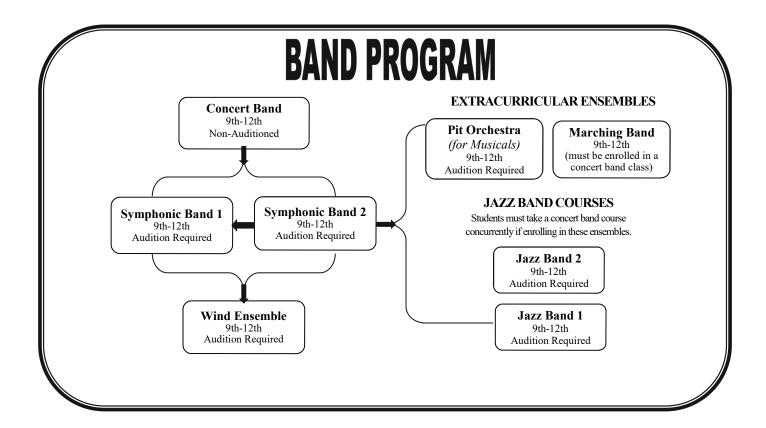
Grade Level(s): 9-12 Credit: 1 Term: Year
Prerequisite: Equivalency exam or permission of department
coordinator

This course is designed for students with a personal connection to the Spanish language who converse with ease and confidence about topics related to Latino culture and have some ability to read and write Spanish. The focus is on vocabulary development, grammar structures and functions, and improving literacy skills. Students further develop their writing skills through projects and other strategies that will facilitate language learning. This course is conducted in Spanish and intended to prepare students for CP Spanish 4 or AP Spanish Language and Culture, with teacher recommendation.

Este curso (Español para Hispanohablantes) está diseñado para estudiantes con una conexión personal al idioma español y que son capaces de conversar con facilidad y confianza sobre temas relacionados a la cultura latina y tienen cierta capacidad para leer y escribir en español. La atención se centra en la mejora del vocabulario, estructuras y funciones gramaticales y el enriquecimiento de los conocimientos formales de la lengua. Los estudiantes desarrollan nuevas habilidades de escritura a través de proyectos y otras formas de facilitar el aprendizaje del idioma a nivel avanzado. Este curso se realiza en español y tiene como propósito preparar a los estudiantes para CP Español 4 o AP Español Lengua y Cultura, con la recomendación del profesor. Requisito previo: Examen de equivalencia o permiso del coordinador del departamento de idiomas.

# CP SPANISH 5 CONVERSATION AND COMPOSITION Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: CP Spanish 4 or equivalency exam

This is a yearlong class for advanced Spanish students who have successfully completed Spanish 4 or AP Spanish Language and Culture. This class is designed to reinforce all the previous years of grammar, reading, writing, speaking, listening and culture with special emphasis placed on student-generated discussion of current events, conversation, oral presentations, and teacher-initiated composition. This class is a continuation of language study for students who are intending to pursue their interest in Spanish at the university level while learning more about the culture.



#### BANDS AND ORCHESTRAS (INSTRUMENTAL MUSIC)

While every attempt is made to place students in the ensemble that they want to perform in, most of the groups are entered by audition only. Proper instrumentation balance and skill level are considerations in staffing the other bands and orchestras.

The Colorado High School Activities Association has ruled that a student must be a member in good standing of his/her parallel ensemble before he/she can audition for that type of All-State group. For example, a student must be a member of the Cherry Creek High School Jazz Band before they can try out for All-State Jazz Band. A student who is in Concert Band only (not Jazz Band also), cannot try out for All-State Jazz Band.

CONCERT BAND

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Successful prior band experience

The goal of this band is to prepare music for concert performance. It is the intent of this band's curriculum to expose students to the joy and satisfaction of performing music in a large ensemble environment where skill development will be emphasized. Students are expected to improve their level of proficiency and to function as a member of the band by coming to class and performances prepared to fulfill their performance obligations.

SYMPHONIC BAND 1

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor (Auditions occur in March)

The Symphonic Band 1 is a group of auditioned winds and percussion that prepare music for concert and festival performances. The curriculum for this class is aimed at the advancing musician, and proper instrumental technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught in this course. Performances are required and are a significant portion of semester grades.

SYMPHONIC BAND 2

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor (Auditions occur in March)

The Symphonic Band 2 is a group of auditioned winds and percussion that prepare music for concert and festival performances. The curriculum for this class is aimed at the intermediate level musician, and proper instrumental technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught in this course. Performances are required and are a significant portion of semester grades.

WIND ENSEMBLE

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor (Auditions occur in March)

The Wind Ensemble is a select group of concert winds and percussion that prepare music for concert and festival performances. Some select members of this band also serve as the wind and percussion section for the Symphonic Orchestra. Proper instrumental technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines are taught in this course. Performances are required and are a significant portion of semester grades.

JAZZ BAND 1

Grade Level(s): 9-12 Credit: 1 Term: Year
Prerequisite: Audition by Instructor (Auditions occur in March)

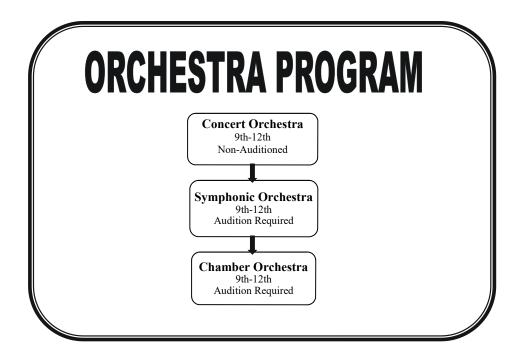
Jazz Bands at Cherry Creek High School are limited to the instrumentation of the classic Big Band; two alto saxophones, two tenor saxophones, one baritone saxophone, four trombones, four trumpets, one drummer, one electric bass player, one electric guitar player, and one pianist.

Student must be enrolled concurrently in a Concert Band course.

JAZZ BAND 2

Grade Level(s): 9-12 Credit: 1 Term: Year
Prerequisite: Audition by Instructor (Auditions occur in March)

See course Jazz Band 1 for description.



#### CONCERT ORCHESTRA

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Successful prior orchestra experience

Concert Orchestra offers an educational and performance outlet for student string players of all levels. Students are exposed to string techniques associated with large ensemble performance, including listening techniques, tuning, intonation and performance practices. Students perform a variety of literature ranging from classical literature to pop music. A minimum of four concerts are played during the year. Students should have at least three years' experience playing in an orchestra.

#### CHAMBER ORCHESTRA

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor (Auditions occur in March)

Chamber Orchestra is an auditioned ensemble, whose members are primarily junior and senior students. It is an advanced orchestra and is designed to acquaint the more serious-minded string students with many aspects of orchestral literature and performance. Students are exposed to a wide variety of repertoire ranging from full symphonies (performed as a full symphony orchestra) to contemporary and chamber music literature. Performances are required and are a significant part of the semester grades.

#### SYMPHONIC ORCHESTRA

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor (Auditions occur in March)

Symphonic Orchestra is an auditioned ensemble, whose members are primarily sophomore and junior students. Symphonic Orchestra is the intermediate level orchestra and offers students the opportunity to perform a variety of literature, ranging from classical literature to pop music. Previous experience playing in an orchestra is encouraged in order to be successful in Symphonic Orchestra. Performances are required and are a significant part of the semester grades.

#### ADDITIONAL MUSIC COURSES

#### \*ADVANCED PLACEMENT - MUSIC THEORY

Grade Level(s): 11-12 Credit: 1 Term: Year

Prerequisite: Approval by Instructor

AP Music Theory is designed for the more serious music student. The course emphasizes fluency with music's fundamentals of notation, scales, keys and modes, intervals and chord structure via Roman numeral analysis and figured bass symbols. This leads to fluency in part writing, harmonization of the soprano line, harmonic analysis of instrumental and vocal music, dictation exercises, aural skills and sight singing. Students are expected to take the AP Music Theory Exam given in the spring.

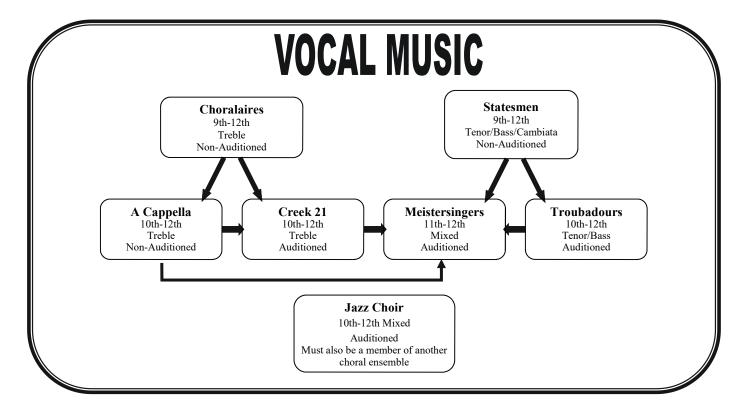
#### PIANO

Grade Level(s): 9-12 Credit: 1

Credit: 1 Term: Year

Prerequisite: None

This course is designed for students to develop and/or increase piano skills with teacher assistance. These skills will include basic finger technique, scales, knowledge of various forms of piano literature and music theory. Students are assessed on a consistent basis throughout each quarter and will have the opportunity to perform for classmates at the close of each quarter.



STATESMEN

Grade Level(s): 9-12 Credit: 1 Term: Year

Prerequisite: None

This course is designed for 20-60 tenors, basses, and students with cambiata voices who wish to study and perform in the area of choral music. The emphasis of this class is to offer students an understanding of choral music from major periods in history to the present and its aesthetic value while developing appropriate vocal technique. Any students with tenor, bass, or cambiata voices, regardless of experience or grade level, are welcome to join. Students will perform required concerts throughout the year and are expected to purchase a performance outfit.

**CHORALAIRES** 

Grade Level(s): 9 Credit: 1 Term: Year

Prerequisite: None

This course is designed for 55-90 students with treble voices who wish to study and perform in the area of choral music (unchanged male voices should join Statesmen). The emphasis of this class is to offer students an understanding of choral music from major periods in history to the present and its aesthetic value while developing appropriate vocal technique. Any students with a treble voice, regardless of experience or grade level, are welcome to join. Students will perform required concerts throughout the year and are expected to purchase a performance outfit.

A CAPPELLA CHOIR
Grade Level(s): 10-12 Credit: 1 Terr

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: None

This course is designed for 60-125 students with treble voices who wish to study and perform in the area of choral music (unchanged male voices should join Statesmen). The emphasis of this class is to offer students an understanding of choral music from major periods in history to the present and its aesthetic value while developing appropriate vocal technique. Any student with a treble voice, regardless of experience or grade level, are welcome to join. Students will perform required concerts throughout the year and are expected to purchase a performance outfit.

**TROUBADOURS** 

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor

This course is designed for 30-50 selected students with tenor and bass voices and emphasizes professional standards of choral music in the areas of literature, history, theory, and proper singing technique. The goal of this choir is to prepare music for concert performance and continue building musical literacy in an advanced choir environment. Students perform at various outside concerts throughout the year and are required to participate in extra rehearsals outside the school day.

CREEK 21

Grade Level(s): 10-12 Credit: 1 Term: Year

Prerequisite: Audition by Instructor

This course is designed for 30-50 selected students with treble voices and emphasizes professional standards of choral music in the areas of literature, history, theory, and proper singing technique. The goal of this choir is to prepare music for concert performance and continue building musical literacy in an advanced choir environment. Students perform at various outside concerts throughout the year and are required to participate in extra rehearsals outside the school day.

MEISTERSINGERS

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor

This course is designed for 30-50 selected students with treble, tenor, and bass voices and emphasizes professional standards of choral music in the areas of literature, history, theory, and proper singing technique. The goal of this choir is to prepare music for concert performance and continue building musical literacy in an advanced choir environment. Students perform at various outside concerts throughout the year and are required to participate in extra rehearsals outside the school day.

JAZZ CHOIR

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Audition by Instructor

This course is designed for 16 selected students with treble, tenor, and bass voices interested in vocal jazz. The emphasis of the course is to expose students to the professional standards of vocal jazz in the areas of literature, technique, articulation, and improvisation. Students must have strong vocal technique and a high mastery of musical literacy. Concurrent membership in another choral ensemble is required.

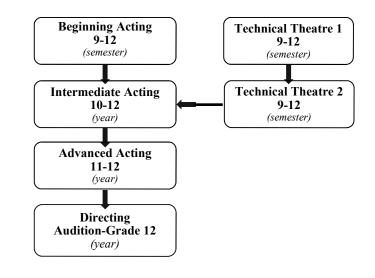
# THEATRE PROGRAM

#### **EXTRACURRICULAR ACTIVITIES**

Main Stage Plays 2 to 3

1 All School Broadway Musical

The Main Stage Plays and musical are after school activities. Students must audition for acting roles and may volunteer to help with the technical and production aspects of these performances.



BEGINNING ACTING

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

This one semester course is a foundational introduction to acting, and serves as the basis for further courses in acting and directing. Students learn techniques in personalization, concentration, listening, emotional availability, dramatic action, imagination, scene study, monologue study and improvisation. Major acting pedagogies are explored, including: Stanislavksi, Hagen, Boleslavsky, and Meisner. The major course units are applied to both theatrical and non-theatrical settings. Students will receive written and oral critiques on performance work.

#### INTERMEDIATE ACTING

Grade Level(s): 10-12 `Credit: 1 Term: Year Prerequisite: Beginning Acting

This performance course stretches the foundational acting techniques to deepen understanding and ready the student for application of style. This includes advanced script analysis and playwriting, genre (comedy vs drama) study, advanced scene work, musical theater, Shakespeare, accent and dialect study (International Phonetic Alphabet), and on-camera acting. Individuals enrolled in the course receive written and oral critiques on performance work. Students who successfully pass this course will be eligible to request enrollment into Advanced Acting.

#### ADVANCED ACTING

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: By audition or consent of Instructor

Advanced Acting takes the acting curriculum and applies it to process and production. Various skills are targeted, including: advanced script analysis and research, audition practicum, actor and director relationships, rehearsal and performance, theories of performance, devising, and the business of acting. Actors will perform in one one-act play each semester and receive written and oral critiques based on the work. The plays are presented for appropriate classes during school and evening public performances. Students who successfully pass this course will be eligible to apply for Directing.

#### DIRECTING

Grade Level(s): 12 'Credit: 1 Term: Year Prerequisite: By audition or consent of Instructor

Directing is an advanced theater course that focuses on taking artistic leadership and integrity in the theatrical medium. Students develop skills in: advanced script analysis and research, actor coaching, rehearsal and performance, staging techniques, performance theories, devising, conceptualization, literary management (agent, playwright, and publisher correspondence), casting and budgeting. Directors select and direct one one-act play each semester and receive written and oral critiques based on the work. Past productions have resulted in world, regional, and educational premiers. The plays are presented

for appropriate classes during school and evening public performances. The class is highly selective, and permits students to assistant direct after-school theater productions.

#### **TECHNICAL THEATRE 1**

Grade Level(s): 9-12 'Credit: .5 Term: Sem Prerequisite: Strong interest in theatre

This course will give theater students a hands-on survey of aspects of technical theater including: construction, scenic painting, lighting, sound, props and stage management. Students will be encouraged, but not required, to participate in our main stage productions. This course is repeatable. Students who have completed Technical Theater 1 and 2 in addition to Intermediate Acting, will be permitted to apply for Directing.

#### **TECHNICAL THEATRE 2**

Term: Sem

Grade Level(s): 9-12 Credit: .5 Prerequisite: Technical Theatre 1

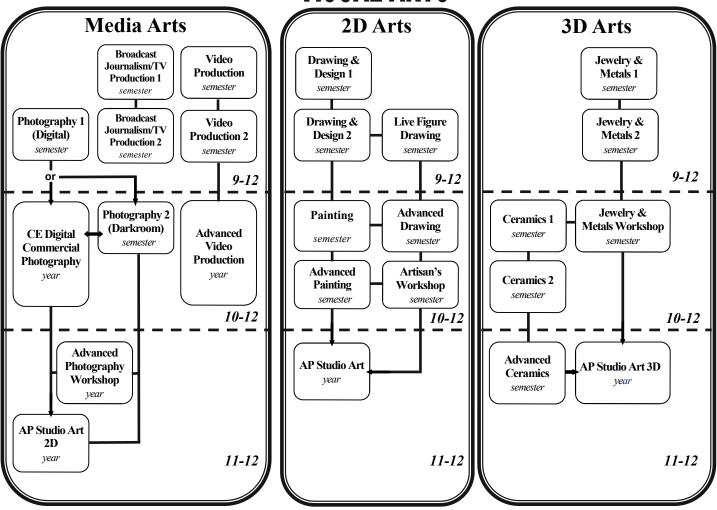
In this course, students nurture a deeper understanding in script understanding and personal expression. Techniques in conceptualization are developed in addition to advanced practices in design (such as scale modeling), and continued experience with the survey areas of Technical Theater 1. This course is repeatable, and students with demonstrated competency may take leadership roles within the classroom after declaring a major area of focus. Students who have completed Technical Theater 1 and 2 in addition to Intermediate Acting, will be permitted to apply for Directing. Students who have completed Technical Theater 1 and 2 often apply for tech leadership in the after-school theater program.

#### **MAL - FINE ARTS (Unified Theater)**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: None

This course will integrate students in ILC and general education peers into a community and ensemble-based exploration of theater arts. Skills in communication, collaboration, creativity, performance, and production are all developed. This class is ideal for students looking to work with students with special needs. For a final project, the entire ensemble (consisting of both typically and atypically learning students) will perform a one-act play (a part of the Cherry Creek High School Unified Theater Project) that will be developed throughout the entire semester. The performance requirement involves one day and one evening of extra-curricular work during the course of the semester.

# **VISUAL ARTS**



#### \*ADVANCED PLACEMENT - 3-D STUDIO ART

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Permission of Instructor, Jewelry & Metals 1, 2, recommended: Jewelry & Metals Workshop Or Permission of Instructor, Ceramics 1, 2, recommended: Advanced Ceramics

A College level course culminating in the preparation and submission of a portfolio for college credit. AP 3D students will spend the year refining their skills in the study of three-dimensional design ideas, materials, and processes. These can be explored through additive, subtractive, or fabrication processes; figurative or non-figurative sculpture; architectural models; Jewelry-both fabricated and cast; and Ceramics-both hand build and thrown work.

Students are required to conduct a sustained investigation lead by an essential question or questions and synthesizes their ideas, materials, and processes in a cohesive body of work. The body of work must contain 15 original works of art. Students must be prepared to purchase consumable material; average cost expenditure of \$40.00 per semester.

#### \*ADVANCED PLACEMENT STUDIO ART: 2D Design-Photography Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Permission of Instructor, Photography 1, 2 and Advanced Photography

A College level course culminating in the preparation and submission of a portfolio for college credit. Students will spend the year refining their skills in the study of Photographic ideas, materials, and processes. These are explored through the experimentation with techniques and processes in both digital photography and traditional black and white photography.

Students are required to conduct a sustained investigation lead by an essential question/questions and synthesizes their ideas, materials, and processes in a cohesive body of work. The body of work must contain 15 original photographic works of art. Students must be prepared to purchase consumable material; average coast expenditure of \$45.00 per semester

#### \*ADVANCED PLACEMENT - ART HISTORY

Grade Level(s): 10-12 Credit: 1\* Term: Year Sophomores must be concurrently enrolled in a World History course. Prerequisite: None

AP Art History is an effective way to review significant events in world culture from a more visual perspective. AP Art History will present a variety of art objects forged by unique historical, geographical, technological, religious, cultural and personal fires. These artistic impulses will enhance a student's awareness of how the humanities reflect and stimulate all human behavior. Course work will consist of unit examinations, vocabulary quizzes, oral presentations, and small research projects.

\*1 Fine Arts cred, OR .5 Fine Arts and .5 Social Studies credit if enrolled for full year. Students must notify counselor to request Social Studies credit.

# ADVANCED PLACEMENT - STUDIO ART Grade Level(s): 11-12 Credit: 1 Term: Year

Grade Level(s): 11-12 Credit: 1 Term: Year
Prerequisite: Permission of Instructor, Drawing/Design 1 & 2 &
Painting, in addition to either Advanced Drawing or Advanced
Painting

A college-level course culminating in the preparation and submission of a portfolio for college credit. Intended for highly motivated students who are committed to achieving quality, intensifying their concentration, and developing breadth. Portfolios will be submitted to AP judges in May. Course materials include a number of consumables which students are expected to provide, amounting to \$35.00 per semester. AP Studio Art may be taken more than one year, but the student must submit a different category of portfolio during the second year. Additionally, space is limited so priority is given to seniors who are taking the course for the first time.

#### ADVANCED CERAMICS

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Ceramics 1 & 2, and Instructor approval

This class will allow advanced ceramic students the opportunity to build a body of work to begin exploring and developing a personal voice and style as an artist. Students will create seven works of art that explore techniques, processes, glaze chemistry, surface treatments, and kiln firings to express conceptual ideas. Course materials include a number of consumables, which the student is expected to provide, amounting to \$25.00. Enrollment is subject to instructor approval.

#### ADVANCED DRAWING/DESIGN

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Drawing/Design 1 & 2 or Instructor approval

A course designed for further development of both traditional drawing & design -based problem-solving skills as established in Drawing/Design 2. This course is a digital drawing & design class that will explore the Adobe Creative Suite and other computer programs as tools for making art. Students will learn to translate their traditional drawing skills into the digital world by using Wacom drawing tables to create works of art that address a variety of client-based and personal prompts that investigate illustration, graphic design, typography, comics, and animation. Course materials include a number of consumables. Students are expected to provide their own consumables which will amount to \$15.00.

#### ADVANCED PHOTOGRAPHY WORKSHOP

Grade Level(s): 11-12 Credit: 1 Term: Year Prerequisite: Successful completion of Photography 1 & 2

This course allows for advanced work in the Design & Multimedia Arts Program of Study. This advanced work can be individualized to the specific program of study to allow for specialized study for the student. It may include project based learning or preparation for the end of program industry certification. Specific content and course design will be determined by the instructor in collaboration with the individual student. This course allows students the opportunity to explore, expand and experiment using the medium of photography. Building on the technical and aesthetic experiences of Photography 1 and 2, this class further investigates intermediate and advanced processes and topics in both traditional and digital image making. During this course the students are expected to begin developing a consistent focused body of work and to complete a photographic portfolio. Students must have demonstrated a strong work ethic, be self-motivated, inquisitive, and maintain an experimental attitude to expand their vision of what photographic image making can be. Course materials include a DSLR and film camera and consumables such as film and print papers.

#### ARTISANS WORKSHOP

Grade Level(s): 11-12 Credit: .5 Term: Sem\*
Prerequisite: Drawing/Design 1/2; & Painting. Advanced Drawing and/or Advanced Painting strongly recommended

Artisans Workshop is an ideal course for serious artist students interested in developing a body of work in preparation for AP Studio and/or to prepare an art portfolio for admission into an art program at a college/university or art school. Students must have taken a minimum of three 2D art courses and demonstrate both maturity and independence to receive permission to enroll. This course includes an ambitious and accelerated pace that prepares students for the demands of AP Studio Art, as well as practice with developing works of art that investigate a central inquiry.

Course materials include a number of consumable materials, which the student is expected to proved. Amounting to \$30.00. Enrollment is subject to instructor approval.

\*May be taken for four semesters maximum.

#### **CERAMICS 1**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: None (10th grade students need coordinator/teacher approval for this course.)

This is a beginning level course for students interested in working with clay. Students will learn the techniques and processes involved in hand building and wheel throwing. Course materials include a number of consumables which students are expected to provide, amounting to \$25.00.

#### **CERAMICS 2**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Ceramics 1

This is an advanced level course for students interested in exploring clay at a more conceptual level. Students will use the basic skills and techniques learned in Ceramics I, as well as new techniques such as glaze formulation, loading and firing a kiln and mold making. This course will allow students to express ideas and concepts with regard to sculptural form. Course materials include a number of consumables which students are expected to provide, amounting to \$25.00.

#### DRAWING/DESIGN 1

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

An introductory course in drawing, composition and design. We will explore a wide range of art experiences and media. Included in the course will be units in the principles and elements of artistic composition. Students will explore a variety of media as a means of extending self-expression, while advancing their skill level. Historical and cultural perspectives are examined to assist in this process. Students are expected to provide their own consumables, which will amount to \$15.00.

#### DRAWING/DESIGN 2

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Drawing/Design I or Instructor approval

A course designed for the student interested in developing skills in drawing. Drawing will be primarily from observation with an emphasis on mastery of formal, technical, and conceptual skills. A variety of media will be explored and historical and cultural perspectives will be addressed through the study of works of art that relate to the course content. Course materials include a number of consumables which students are expected to provide, amounting to \$15.00.

#### LIVE FIGURE DRAWING

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

The figure drawing course addresses human anatomy with regard to the bones and muscles that make up the human form. Students will draw from a live clothed model in a wide variety of media, including, charcoal, conté, paste, ink, and paint. The first half of the semester, the students will draw from the model every day to work toward mastery. During the second half of the semester, the students will collaborate on an animated movie featuring the human form in motion.

#### JEWELRY/METAL 1

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

Jewelry and Metals 1 is an exploratory class in which students learn how to design and produce highly crafted and aesthetically pleasing jewelry. The student learns to use a variety of materials, tools and techniques with regard to metal-smithing. Historical and cultural perspectives will be examined to assist in this process of discovery and creation. Students must be prepared to purchase consumable materials; average expenditure of \$30.00.

#### JEWELRY/METAL 2

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Jewelry/Metal 1

Jewelry and Metals 2 is designed to continue to refine knowledge and skills covered in the beginning course. In addition, students will be exposed to a broader array of technical and aesthetic possibilities in jewelry making. Students must be prepared to purchase consumable materials; average expenditure of \$30.00.

#### JEWELRY/METAL WORKSHOP

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Jewelry/Metal 2 and consent of Instructor

Jewelry & Metals Workshop is designed for advanced students who wish to further explore, experiment and expand their aesthetic and technical repertoire. In addition to considering traditional jewelry forms and techniques, students will be exposed to sculptural possibilities of metal-smithing. New materials and processes will be considered as well. Students must be prepared to purchase consumable materials; average expenditure of \$30.00

#### **PAINTING**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Drawing and Design 1 & 2

A course designed to give a broad experience in color and composition through the use of acrylics, oils, watercolors and collage. Still life, landscape and figurative subjects will be emphasized using both realistic and abstract interpretations. Course materials include a number of consumables which students are expected to provide, amounting to \$20.00.

#### ADVANCED PAINTING

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Painting

This course emphasizes the imaginative use of materials and ideas as developed in Painting, in addition to further study in watercolor and collage/construction techniques. Students will independently explore themes and media of their choice. Course materials include a number of consumables which students are expected to provide, amounting to \$20.00.

#### **PHOTOGRAPHY 1**

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

This photography course focuses on studio-based photography. Students will learn basic DSLR camera operations, framing and the art of styling and lighting for professional photo shoots. Projects will include various print advertisements and studio work. Students will learn about careers in related to commercial photography and the postsecondary programs and requirements within Colorado. Some examples of jobs in this area are photographer, graphic designer and stylist. Students will complete a number of projects and design pieces to be added to personal portfolios. The course offers instruction and experiences in the technical and aesthetic concerns of photography. Students will learn to operate a DSLR camera and variety other equipment to create photographic images. Art production will cover a variety of approaches with specific emphasis placed on the use of digital photography. The class will also address the history of photography through group and individual student research. Course materials include a DSLR (there are limited number to rent from school) and some consumables.

#### PHOTOGRAPHY 2

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Successful completion of Photography 1

Photography 2 refines and expands the concepts, processes, and techniques taught in Photography 1. Technical teaching of darkroom and traditional black and white film photography techniques will allow the student an opportunity to explore manipulative and non-traditional approaches to image making. Course materials include 35mm film camera, darkroom, supplies, and other consumables. Course emphasizes the needs of commercial photographers with regard to technical expertise, creativity, and professional equipment. Technical aspects include film to digital transfer, lighting, digital image manipulation, alternative processes, large format camera work and stock photography. Creative exploration of subject matter, lighting, color theory and other psychological characteristics in the development of images are studied. A variety of photographic equipment is utilized for the studio and on location. Students are expected to create a portfolio of work for both print and electronic formats. Concurrent enrollment credit is eligible for this course.

#### VIDEO PRODUCTION 1

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

This course is a hands-on introduction to video production. Students will produce a variety of short films with emphasis on story telling. They will learn as filming, editing, script writing, and basic copyright and first amendment law and ethics. The major projects in this class are the Final Cut Pro Intro, Quest Project, and Story Telling Project. At the end of the semester each student will create a DVD with all of their projects. Students are expected to provide their own consumables, which will amount to \$10.00.

#### **VIDEO PRODUCTION 2**

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Video Production 1

Students will build on the skills they learned in Video Production 1 to produce a variety of more advanced short films. The major projects are the Music Video and Story Telling Projects. Other shorter projects include Weird Project, UFO Abduction, and Film Scene Recreation. At the end of the semester, each student will create a DVD with all of their projects. Students are expected to provide their own consumables, which will amount to \$10.00.

#### ADVANCED VIDEO PRODUCTION

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Video Production 2 or Instructor's Approval

This is a yearlong course for students who enjoyed and excelled in Video Production 1 and 2. The major focus of the class is to produce high quality short films. Students will work on sound design, experiment with the manual settings on a camera, and have the opportunity to work with talent from the Advanced Acting class. Major projects include Foley, Avant-Garde, Recollection Story Telling, Two 30 Second Adverts, Studio Project, Story Telling, and a final Thesis Project of your choice. Students are expected to provide their own consumables, which will amount to \$20.

#### BROADCAST JOURNALISM/TV PROD 1

 $\star$ 

(BBN-Video morning announcements)

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

Students will create a weekly Video Morning Announcement that are broadcast throughout the school. Students will learn creative script writing, filming, acting and speech presentation, editing, and producing. The class will focus on the ability to create short advertisements that are both entertaining and informative. It is recommended, but not required, that students have taken Video Production 1.

#### **BROADCAST JOURNALISM/TV PROD 2**



(BBN-Video morning announcements)

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Broadcast Journalism/TV Prod 1

This class is for students who have already taken a semester of Broadcast Journalism. BJ2 students will assume greater leadership roles in the production of the weekly Video Morning Announcements. They will still be producing individual announcements, but will also become Executive Producers, responsible for the overall look and feel of the announcements. Responsibilities will include organization and delegation of announcements, and the mentoring and critiquing of their peers.

#### YEARBOOK



Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Instructor Approval

By enrolling in this course, students become staff members of the Cherry Creek High School Yearbook, the Patriot. Students will be responsible for every aspect of production of the yearbook. This includes interviewing, reporting, editing, planning and designing layouts, researching and writing copy, writing photo captions and headlines, and photographing athletics, activities and people. Additionally, student will address the business aspects of producing the yearbook: advertising, managing a business, selling, and promoting.

#### DIGITAL COMMERCIAL PHOTOGRAPY

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: None

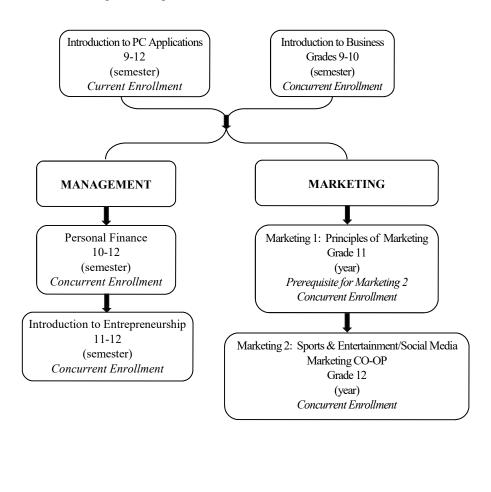
Fee: \$75

This course concentrates on the high-end capabilities of Adobe Photoshop as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics, and videos. The course competencies and outline follow those set out by the Adobe Certified Associate exam in Visual Communication Using Adobe Photoshop. This dynamic, hands-on, project oriented photography course challenges students to think critically, learn professionalism, and produce critically acclaimed art. Assigned projects prepare students to strengthen their creative eye and see life from a different perspective. Students learn both film and digital photography, use a darkroom and learn the industry standard professional software: Adobe Photoshop. Students will explore career possibilities, develop a resume, and meet photographers, all while preparing for college and industry. This course will include understanding the commercial photography business, composition theory, digital ethics, and competition events, where students produce a portfolio. This course aligns with the Colorado Community College course Adobe Photoshop (MGD 111). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.

# **BUSINESS DEPARTMENT**

#### PRACTICAL FINE ARTS

Introduction to PC Applications and Introduction to Business are recommended prerequisites for Marketing 1, Personal Finance, and Introduction to Entrepreneurship.



#### **BROADCAST MEDIA**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: CP Journalism; Video Production 1 recommended

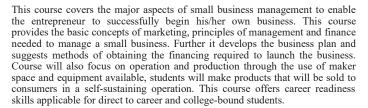
Broadcast Media - Cherry Creek Sports Network

This is an introductory course that explores the industry of Broadcast Media where through various mediums students will experience producing live events and the content associated with producing and marketing those events and activities. Students learn the basic fundamentals of broadcast production, including writing, producing, and computer editing. Students receive basic training in photography and videography techniques using digital technology to create various broadcasts for TV and the Internet. The Cherry Creek Sports Network produces and broadcasts live student events during the course of the year and creates content to support and promote those efforts. Additionally, CCSN takes on special projects such as the Homecoming Hype film, the web To learn more you can follow CCSN on Twitter @cherrycreksn and find their productions at the Cherry Creek Sports Network YouTube channel.

- \* This course may be repeated with permission of instructor
- Attending extra-curricular events is a key component to this class. See Mr. Weiss or contact him at mweiss9@cherrycreekschools if you have questions or concerns about this element.



Credit: .5 Grade Level(s): 11-12 Term: Sem Prerequisite: None



\* Offered for 3 Concurrent Enrollment credits through ACC (ENP1005).



#### CE INTRODUCTION TO BUSINESS

**ACC** Grade Level(s): 9-10 Credit: .5 Term: Sem

Prerequisite: None

Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics. This course aligns with the Colorado Community College course Introduction to Business (BUS 115). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab Students are encouraged to participate in FBLA (Future Business Leaders of

\* Offered for 3 Concurrent Enrollment credits through ACC (BUS1015).

#### **▲** ACC CE INTRODUCTION TO PC APPLICATIONS Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

With increased use of computers in our daily lives, it is crucial that students develop the ability to efficiently use a computer. This course provides an introduction to computer applications including, Word, Excel, Access and PowerPoint. The knowledge of these applications is vital for the student in high school, college, and in his or her career. Much of the curriculum is individualized; students must have good problem solving, organizational, and motivational skills. According to the Princeton Review, the #1 college major in the United States is Business. Students are encouraged to join FBLA (Future Business Leaders of America). See page ix for more information.

\* Offered for 3 Concurrent Enrollment credits through ACC (CIS1018).

#### MARKETING 1: PRINCIPLES OF MARKETING **Grade Level(s):** 11 Credit: 1 Term: Year Prerequisite: Intro to Business recommended

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer. This course aligns with the Colorado Community College course Principles of Marketing (MAR 216). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab. Only students enrolled in Marketing classes may participate in DECA (an Association of Marketing Students). Cherry Creek has one of the more successful DECA programs in the nation, and DECA members will have many opportunities to participate in competitive business events, develop leadership skills, work on community service projects, and enjoy various social activities. Upon meeting required criteria, students will also earn a letter in DECA.

\* Offered for 3 Concurrent Enrollment credits through ACC (MAR2016).

#### MARKETING 2: SPORTS & ENTERTAINMENT/SOCIAL MEDIA ACC Grade Level(s): 12 Credit: 1 Term: Year Prerequisite: Successful completion of Marketing 1 and teacher recommendation

This course combines sports and entertainment marketing and Social Media for business. Sports and entertainment will explore management principles practiced by successful businesses in the sport and entertainment fields. Topics covered include college and amateur sports, professional sports, product management, customer relations, and more. Social Media for Business teaches students how to use social media as a business strategy and covers how to match that strategy with the goals of the business. This course addresses current trends, ethics, regulations, legal challenges, strategy, content development, and change management. This course helps students develop a better understanding of how marketing with social media is similar to and different from traditional marketing and how to best use online methods to further business goals. Students must enroll in Marketing 2 and Marketing Coop to receive proper credit. One credit earned for the classwork, one credit earned for the course related job. Students are encouraged to test their knowledge in DECA related activities and participate in DECA community service and social activities. Upon meeting required criteria, students will earn a letter in DECA.

\* Offered for 3 Concurrent Enrollment credits through ACC (MAR1055)

MARKETING CO-OP: School Based Business - Retail

Credit: 1 Term: Year Grade Level(s): 12

Prerequisite: Successful completion of Marketing 1 and teacher recommendation. Enrollment in Marketing 2.

This course is an entrepreneurial operation in a school setting that provides goods/services to meet the needs of a market. Students will learn hands-on retail procedures including customer service, advertising, sales, merchandising and math. The school store, Bear Necessities, will be used for the Coop requirement. Students must enroll in Marketing 2 and Marketing Coop to receive proper credit. One credit earned for the classwork, as noted above, and one credit for the course related work.

#### CE PERSONAL FINANCE

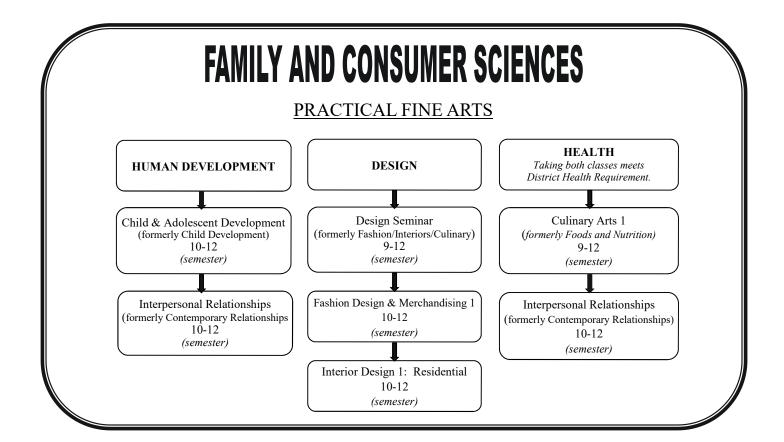
**ACC** 

Grade Level(s): 10-12 Credit: .5 Term: Sem

Prerequisite: Intro to Business recommended

Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes. This course aligns with the Colorado Community College course Personal Finance (BUS 116). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab. Students are encouraged to participate in FBLA (Future Business Leaders of

\*Offered for 3 Concurrent Enrollment credits through ACC (BUS1016)



#### CHILD & ADOLESCENT DEVELOPMENT

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: None

The purpose of this course is to acquire knowledge and understanding of child and adolescent development necessary for strengthening the well-being of children and families. Content focuses on perspectives of human development, research and theories, understanding and nurturing development, and challenges to development. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class.

#### INTERPERSONAL RELATIONSHIPS

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: None

The purpose of the course is to acquire academic knowledge and understanding for healthy, respectful, and caring relationships across the life span. Emphasis is placed on family and friendly dynamics, effective communication, and healthy interpersonal relationships. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class.

Note: By completing both Interpersonal Relationships and Culinary Arts 1, a student will fulfill the district Health requirements.

#### **CULINARY ARTS 1**

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

Culinary Arts/Food Production incorporates a student-run restaurant open to the public focusing on operation, food preparation, customer service, front/back of the house experiences, food safety, and management. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class. Students will be charged a \$30.00 fee for consumable materials.

Note: By completing both Interpersonal Relationships and Culinary Arts 1, a student will fulfill the district Health requirements.

#### **DESIGN SEMINAR**

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

This course will give students an introduction to the elements and principles of design as seen in Interior Design, Fashion Design, Publishing and a variety of other fields. In addition, it will introduce students to the many careers that require design and allow them to analyze their own career pathways to determine where design might fit. This course is recommended as an introduction to the fashion and interior design pathway. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class. Students will be charged a \$25.00 fee for consumable materials.

#### **FASHION DESIGN & MERCHANDISING 1**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: None

The purpose of this course is to expose students to various aspects of the fashion design and merchandising industry. Students integrate knowledge, skills, and practices to evaluate potential career opportunities. Emphasis is placed on an introduction to fashion, fashion and textile selection, product construction and fashion merchandising. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class. Students will be charged a \$25.00 fee for consumable materials.

#### **INTERIOR DESIGN 1: RESIDENTIAL**

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: None

The purpose of this course is to expose students to various aspects of the interior design industry and is based on the industry's professional standards (Council of Interior Design Accreditation-CIDA). The first semester focuses on residential design. Students integrate knowledge, skills and practices to evaluate potential career opportunities. Areas of focus include: Introduction to Residential and Commercial Design; Design Drawings; Professional Practices/Education; Design Elements and Principles; and the Design Process. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class. Students will be charged a \$25.00 fee for consumable materials.

# PHYSICAL EDUCATION/HEALTH

Students are required to earn 1.5 credits in Physical Education and .5 credit in Health. It is optimal and encourage that students take .5 credits from any or all of the different areas of Physical Education listed below.

- .5 credit in Adventure Base Activities
- .5 credit in Fitness Based Activities
- .5 credit in Individual Sports Activities
- .5 credit in Team Sports Activities
- .5 credit must be in Health (Sophomore year is recommended)

#### HEALTH EDUCATION

#### HEALTH

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: None (Sophomore year is recommended)

This is a required course needed graduation credit at CCHS. Health includes discussions on current issues in health-related areas, such as, nutrition, physical fitness, diseases and disorders, mental health, stress management, first aid, human relationships, substance abuse and violence prevention. The class grade and evaluation is based on the students overall comprehension of the materials presented, assignments, projects, and unit assessments.

#### **HEALTH - HYBRID**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

Health (Hybrid) is the class that is intended for the highly self-motivated, high academic student. Health includes discussions on current issues in healthrelated areas such as, nutrition, physical fitness, diseases and disorders, mental health, stress management, first aid, human relationships, substance abuse, and violence prevention. The class grade and evaluation is based on the students overall comprehension of the materials presented, assignments, projects, and unit assessments. Students will meet one to two times a week in the classroom. This class fulfills the CCHS Health requirement for graduation.

#### ADVENTURE PROGRAM

#### ADVENTURE CHALLENGE COURSE (ACC)

Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: None

Students enrolled in the Adventure Challenge Course Class will progress through an experientially based program that emphasizes interpersonal relationships and individual growth. This class encourages students to develop greater self-confidence and at the same time acquire a sense of trust and commitment in their classmates. Integrated throughout the curriculum is the development of cooperation, communication, trust, elements of safety, the use of critical thinking skills, and fun through a variety of activities. The CCSD Challenge Course and CCHS Climbing Walls are the primary educational tools. There is a \$20.00 fee to this course. Students will be required to sign and commit to a full value contract, dress in appropriate clothing for the activities, complete a series of safety related performance evaluations, and a selfevaluation of their activities.

#### ADVENTURE OUTDOOR EDUCATION (AOE)

Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: None

Students enrolled in Adventure Outdoor Education (AOE) will receive instruction in backcountry living and travel, rock climbing, snow travel, avalanche awareness, Leave-No-Trace environmental ethics, and fitness. Students will be encouraged to develop greater self-confidence and a sense of community with their classmates. There is a \$20.00 fee to this course. Field trips options occur over weekends and are offered through the Creek Outdoor Leadership Training (COLT) Club. These field trips provide the opportunity for use of the skills learned in class and are highly encouraged. All trips require an additional fee specific to that event.

#### ADVENTURE WATER SPORTS (AWS)

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Intermediate Swimming Skills

Students enrolled in Adventure Water Sports (AWS) will receive instruction in snorkeling, beginning kayaking, stand up paddle boarding, water sports games, and swim fitness. Students will progress through an experiential based program that emphasizes interpersonal relationships and individual growth. The class encourages students to develop greater self-confidence and at the same time acquire a sense of trust and commitment with their classmates. There is a \$20.00 fee for this course.

#### ADVENTURE LEADER TRAINING (ALT)

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Adv. Challenge Course; or Adv. Outdoor Ed; or Adv. Water Sports

Adventure Leadership Training is designed for the student who has fulfilled all requirements of either Adventure Challenge Course, Adventure Outdoor Education, or Adventure Water Sports class and wants to develop a higher level of knowledge and leadership. This course will focus on the leadership skills related to peer facilitation in the Creek Adventure Program. Students will progress through leadership topics, practice facilitations, complete performance & written evaluations as well as self-reflections of activity & skill lessons. Students will demonstrate and practice their effectiveness as an Adventure Leader by peer leading with students in this course. ALT offers all enrolled students concurrent college credit through Red Rocks Community College. There is a \$20 course fee for this class.

#### ADVENTURE LEADER

(Includes Adv. Challenge Course; Adv. Outdoor Ed; or Adv. Water Sports)

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: ACC; AOE; AWS; ALT; or permission of Instructor

Adventure Leader is a course designed for the student who has fulfilled the above prerequisites and allows students to implement the leadership and facilitation skills acquired. Student leaders will be required to work closely with their peer leadership team and supervising teacher. Students are permitted to lead the Adventure classes listed above (ACC, AOE, or AWS) and are required to meet outside of class for certain hours. Instructor permission is required for this class.



#### FITNESS BASED ACTIVITIES

FITNESS & AEROBIC TRAINING

Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: None

This class focuses on cardiovascular fitness, muscular strength, and flexibility. Activities will include, but are not limited to aerobics, cardio-strength, circuit training, and flexibility exercises. Specific course content will be on understanding the relationship between exercise and a healthy lifestyle as well as proper technique to exercise safely and effectively.

LIFEGUARD TRAINING/SWIM CONDITIONING

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Swimming Skills

Earn PE credit and get job training for the summer. This class will prepare you physically and mentally to become a Lifeguard. This class will meet daily, some days in the classroom, some days in the pool. In the classroom we will learn the most recent First Aid, CPR and Lifeguard skills. In the pool will be a combination of swim fitness and putting the skills learned I the classroom into

PERSONAL FITNESS - Through CCHS

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: None

Students will learn about the components and principles used in physical fitness. This hybrid class meets once a week in the classroom. Students will use various forms of technology to collect, evaluate, and share their fitness activities and assignments. This information is used to document fitness levels and goals as students take ownership of their health and lifetime fitness levels. There is a fitbit materials fee for this course. This class is intended for the self-motivated, high academic student.

**WEIGHT TRAINING 1** 

Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: None

This is a course designed to introduce the activity of weight training to the student. A variety of exercises and workouts will be explored along with a general survey of the relationship of weight training and exercise to muscular and skeletal makeup of the body.

**WEIGHT TRAINING 2** 

Grade Level(s): 10-12 Credit: .5 Term: Sem

Prerequisite: Weigh Training 1

This course is an orientation to advanced methods of weight training. Each student will have an individualized workout routine, and there will be a set scale for testing.

**ADVANCED FITNESS (Weight Training)** 

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Weight Training 1 or Summer Sports weight training

This course is geared to the high-level athlete The course focuses on specific

sports training to increase speed, power and strength. Olympic lifting techniques, plyometric training, core stretching, agility footwork, and platform training are taught.

DANCE

Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: None

This course is designed to introduce the student to basic dance and movement. Content included is basic dance technique, physical conditioning for dance, flexibility, and the components of choreography.

**YOGA** 

Grade Level(s): 10-12 Credit: .5 Term: Sem

Prerequisite: None

This course is an entry-level yoga class designed to introduce students to basic yoga, and mindfulness. Formats covered will include Vinyasa and Hatha. The practice of yoga promotes muscular strength, endurance, flexibility, and balance. The aim of this course is to promote health and engage students in lifetime fitness. Students will need to purchase their own personal yoga mat for this

#### INDIVIDUAL SPORT ACTIVITIES

#### **TEAM SPORT ACTIVITIES**

INDIVIDUAL SPORTS

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: None

In this class, the following sports and activities are offered throughout the course of each semester. Students are exposed to the basic skills, strategies, fitness components, rules, and regulations of 4-5 of the following activities as facilities permit:

Golf Badminton Archery Pickle ball Tennis

PEER MENTOR P.E.

Grade Level(s): 10-12 Credit: .5 Term: Sem

Prerequisite: None

This course will pair and integrate high needs students and typical high school peers in a cooperative exploration of components and principles of physical fitness. High school peers will provide positive motivation, and interaction in the learning environment. Peers will also learn skills and techniques, exercises, games, dance techniques, language skills, math, and social building skills, alongside their high needs partners. The course is designed for students interested in working with special needs students.

PEER MENTOR SWIM FITNESS

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Swimming Skills

This course will pair and integrate high needs students and typical high school peers in a cooperative exploration of components and principles of swim fitness. This class will incorporate physical therapy and fitness in the water for students with and without disabilities associated with mobility.

TEAM SPORTS (TSA) Grade Level(s): 9-12

Credit: .5 Term: Sem Prerequisite: None

The following sports and activities are offered throughout the course of each Students are exposed to the basic skills, strategies, fitness semester. components, rules, and regulations of 4-5 of the following activities as facilities

> Flag Football Volleyball Basketball Soccer Speedball Speed-a-way

Frisbee Softball



# STUDENT ACHIEVEMENT SERVICES

**IMPORTANT INFORMATION:** Eligibility for Student Achievement Services is determined only after a referral is made. A diagnosis is completed in five areas: health, intellectual capacity, academic standing, social and emotional status and a staffing is held. A staffing team composed of parents, student, and professionals from both special and regular education make the determination of handicapping condition, needs, and suitable intervention. Annual reviews are held.

If a student has a current Individual Education Plan (IEP) he/she is eligible for any of the following classes if the student's IEP specifies the need.

#### **ENGLISH COURSES**

#### **ELEMENTS OF CP ENGLISH 9**

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: Student with IEP

This course is intended to meet the needs of students with literacy acquisition delays who need to improve their decoding, reading comprehension, speaking, listening, and executive organization skills. The class uses a variety of direct intervention based curricula in order to help students gain the basic skills needed to be successful in high school.

#### **ELEMENTS OF CP ENGLISH 10**

Grade Level(s): 10 Credit: 1 Term: Year Prerequisite: Student with IEP

This course is intended to meet the needs of 10th grade students with literacy acquisition delays who need to improve their decoding, reading comprehension, speaking, listening, and executive organization skills. The class uses a variety of direct intervention based curricula in order to help students gain the basic skills needed to be successful in high school.

#### **ELEMENTS OF CP ENGLISH 11**

Grade Level(s): 11 Credit: 1 Term: Year

Prerequisite: Student with IEP

This course is intended to meet the needs of 11th grade students with literacy acquisition delays who need to improve their decoding, reading comprehension, speaking, listening, and executive organization skills. The class uses a variety of direct intervention based curricula in order to help students gain the basic skills needed to be successful in high school.

#### **ELEMENTS OF CP ENGLISH 12**

Grade Level(s): 12 Credit: 1 Term: Year Prerequisite: Student with IEP

This course is intended to meet the needs of 12th grade students with literacy acquisition delays who need to improve their decoding, reading comprehension, speaking, listening, and executive organization skills. The class uses a variety of direct intervention based curricula in order to help students gain the basic skills needed to be successful in high school.

#### ILC ENGLISH

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Staffed into ILC Program

This course is designed to meet the English needs of ILC students. Instruction is individualized and focuses on functioning reading and writing skills. Instruction in this class may take place in the classroom or in the community as students transfer skills across a variety of settings.

#### PRACTICAL ENGLISH

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Staffed into ILC Program

Practical English is a yearlong course that covers reading comprehension, reading fluency, and writing as well as the application of those skills. Emphasis will be placed on development of functional English skills and applying them to practical situations. Students will read a minimum of one novel per semester.

#### SOCIAL STUDIES COURSES

#### ELEMENTS OF AMERICAN GOVERNMENT

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Student with IEP and Instructor Approval

This course covers the foundations of American government. The three branches of government - legislative, judicial and executive - will be studied at local, state and federal levels. The course provides an opportunity for students to attain civic competency. It focuses on the essential role and responsibilities of individuals in a democracy

#### **ELEMENTS OF ECONOMICS 1**

Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: Student with IEP

This course satisfies a core social studies requirement. Topics include learning styles, accommodations, self-advocacy, post graduate services, completion of a college application, essay, job shadow and guest speakers.

#### **ELEMENTS OF ECONOMICS 2**

Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: Student with IEP and with Instructor Approval

This course satisfies a core social studies requirement. Topics include life after high school by managing financial independence, writing resumes, roommates and public transportation.

#### **ELEMENTS OF SOCIOLOGY 1**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Student with IEP

This course will examine the development and function of human behavior in groups. The students will study the causes of changing relationships within society. A few topics the class will investigate are culture, communication and conflict. Current events and sociology issues are incorporated throughout the course

#### **ELEMENTS OF UNITED STATES HISTORY**

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Student with IEP

This course meets the district's U.S. History requirement for graduation. The course is designed for those students who have reading and learning difficulties. Materials are modified and individual attention is emphasized to help students succeed in United States History.

#### ELEMENTS OF WORLD HISTORY

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Student with IEP

This course surveys world history from the emergence of civilization to the present day. Materials are modified and individual attention is emphasized to help students understand political, social, economic and cultural forces across civilizations.

#### ILC SOCIAL STUDIES

Grade Level(s): 9-12 Credit: 1 Term: Year

Prerequisite: Staffed into ILC Program

This class is designed to meet the Social Studies need of the ILC students. Instruction is individualized and focuses on safety, community access, and personal information. Instruction in this class may take place in the classroom or in the community as students transfer skills across a variety of settings. One year of this course can apply toward the U.S. History graduation requirement. An additional semester may be applied toward the American Government requirement.

PRACTICAL SOCIAL STUDIES

Term: Year Grade Level(s): 9-12 Credit: 1 Prerequisite: Staffed into ILC Program

This course is designed to teach basic social studies skills to students in ILC. Students will learn about basic concepts of social studies including geography, community access, and history. This class will involve practical topics that relate to students' everyday lives. One year of this course can apply toward the U.S. History graduation requirement. An additional semester may be applied toward the American Government requirement.

#### **MATH COURSES**

CP ALGEBRA 1

Term: Year Grade Level(s): 9-12 Credit: 1 Prerequisite: Student with IEP

This course is a team taught general education class; a math teacher and a special education teacher work together to provide support to all students. This course encompasses the fundamental concepts of Algebra. It's designed to provide the opportunity to master all the topics of an Algebra 1 course, while providing extra support for students who have struggled with math in the past. This course offers a survey of Algebra common core standards.

**CP GEOMETRY** 

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: CP Algebra 1

This course is a team taught general education class; a math teacher and a special education teacher work together to provide support to all students. This course will emphasize intuitive development of the Geometric concepts rather than formal two-column proofs. This course will cover traditional topics: points, lines, angles, triangles, quadrilaterals, area, polygons, perimeter, trigonometry, constructions, and more.

**ELEMENTS OF CP ALGEBRA 1** 

Grade Level(s): 10-12 Credit: 1 Term: Year

Prerequisite: Elements of Integrated Alg/Geom or Integrated Alg/ Geometry

This course follows the essential topics covered I the CP Algebra 1 curriculum. It moves at a slower pace to allow students to master basic Algebra 1 skills.

**ELEMENTS OF CP GEOMETRY** 

Credit: 1 Grade Level(s): 11-12 Term: Year Prerequisite: Elements of Algebra 1 or CP Algebra 1 or recommendation from Case-manager.

This course offers a survey of geometry common core standards. It reviews basic algebra and gives students the opportunity to master basic geometry topics.

**ELEMENTS OF INTEGRATED ALGEBRA/GEOMETRY** Grade Level(s): 9-12 Credit: 1 Term: Year

Prerequisite: Students with IEP

This course covers the essential math topics of number sense, properties, operations algebraic structures, patterns and analysis found in the common core standards. This class is designed to provide each student with the opportunity to master basic skills necessary to adequately progress in high school math. This course is available by teacher recommendation only based on middle school performance.

ILC MATH

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Staffed into ILC Program

This course is designed to teach functional math skills. Students work on essential time, money management, and numeracy in a structured work setting and in the community. The instruction will take place both in the classroom and in the community for functional application of these skills. Banking and checking may be included to meet student needs. Shopping and cooking skills are an integral part of this course. Students are expected to provide own consumables, which will amount to \$35.00 per semester.

PRACTICAL MATH

Grade Level(s): 9-12 Credit: 1 Term: Year

Prerequisite: Staffed into ILC Program

Practical Math Applications is a yearlong course that covers basic math skills and the practical application of those skills. Emphasis is placed on development of functional math skills including budgeting, time management, shopping, cooking skills and it's application to practical situations.

#### **SCIENCE COURSES**

**BIOLOGY** 

Grade Level(s): 10-12 Credit: 1 Term: Year Prerequisite: Student with IEP and Physical Science or permission

This course is a team taught general education class. This course focuses on the fundamentals of Biology. The topics of study include cell chemistry of life, ecology, evolution, human systems and genetics. This course is not a laboratory science course.

PHYSICAL SCIENCE

Grade Level(s): 9 Credit: 1 Term: Year

Prerequisite: Student with IEP

The course is a team taught general education class. This is a freshman level course that focuses on the fundamentals of the following topics: astronomy, chemistry, physics, and the use of scientific inquiry as a method of learning. Concepts in this class are integrated with math and writing skills. This course is not considered a laboratory science class.

ILC SCIENCE

Grade Level(s): 9-12 Term: Year Credit: 1 Prerequisite: Staffed into ILC Program

This course is designed to teach essential science skills. Students will learn about essential concepts of science that may include the study of ecosystems, biology, anatomy, and physiology. This class will involve practical topics that relate to students' everyday lives. Methods of learning will include simple experiments and scientific inquiry. A semester of this course will be focused on personal health, nutrition, and physical education and this may be applied toward the Health requirement.

PRACTICAL SCIENCE

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Staffed into ILC Program

This course is designed to teach basic science skills. Students will learn about basic concepts of science that may include the study of ecosystems, biology, anatomy, physiology, astronomy, and physics. This class will involve practical topics that relate to students' everyday lives. Methods of learning will include simple experiments and scientific inquiry. A semester of this course will be focused on personal health, nutrition, and physical education and this may be applied towards the Health requirement.

#### FINE ARTS

ARTS EXPLORATION

Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: Staffed into ILC Program

First Semester: This course designed for students in the ILC program to explore their interests in the theater arts. Students will work on script writing, costume designing, acting, and choreography. ILC students will work with students in general education to produce a Unified theater production during the school year. Attendance is very important for this class and we ask that students plan on attending daily as all rehearsals are during the class. Students are responsible for small materials fee. Students will receive .5 fine arts credit upon successful completion of the course.

Second Semester: This course is intended as an introductory concept exploration in the visual and performing arts. The second semester will focus on visual art and music. High needs students will be paired with typical peers in an integrated and cooperative learning environment. Students will study drawing, painting, ceramics, sculpture, photography, movement, singing, and playing instruments. Students will receive .5 fine arts credit upon successful completion of the course.



#### FINE ARTS cont'd

#### PRACTICAL TECHNOLOGY

Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: Staffed into ILC Program

Prerequisite: Student with IEP This program provides students with the opportunity to learn job skills while

WORK EXPERIENCE STUDY (WES)

Grade Level(s): 9-12

Excel spreadsheets, Word, PowerPoint and more.

This course designed for students in the ILC program to explore technology. With increased use of computers in our daily lives, it is crucial that students develop the ability to efficiently use a computer. Students will work on typing,

#### PHYSICAL EDUCATION/HEALTH COURSES

ADAPTIVE P.E.

Grade Level(s): 10-12 Credit: .5 Term: Sem

Prerequisite: None

Adaptive PE is designed to teach students with special needs the basic components of fitness and game rules associated with various sports or activities. Games and activities are modified to enable all students to participate in every game or activity.

ADAPTIVE SWIM FITNESS



Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: None

This class will meet the needs of students staffed into the ILC or Autism program at Cherry Creek High School. This is a general class to improve fitness using training techniques in the water. There will be limited instruction in swimming skills. Primary course content will include swimming, aquatic therapy, stretching, water exercise, and other training methods. This class will aim to support students in improving muscle tone, cardiorespiratory fitness, and overall fitness. This class will incorporate physical therapy and fitness in the water for students with and without disabilities associated with mobility.

PRACTICAL HEALTH



Grade Level(s): 9-12 Credit: .5 Term: Sem

Prerequisite: Staffed into ILC Program

This course fulfills the district-level requirement for health. Modified health curriculum focuses on issues and components of personal health as they apply to mental, physical, emotional, and social well-being. Topics may include stress management, mental health behaviors, romantic relationships, nutrition, fitness, and safety.

#### **ELECTIVE COURSES**

ACADEMIC SUPPORT LAB



Grade Level(s): 9-12 Credit: .5 Prerequisite: Current IEP Case Mgr. Recommendation

This course will provide an opportunity for students to complete academic assignments. . Students are expected to utilize the time effectively. Classroom teachers will be invited to communicate with the Academic Support teacher about assignments, projects, tests, and organization.

PRACTICAL FOODS AND NUTRITION

Grade Level(s): 9-12 Credit: 1 Term: Year

Prerequisite: Staffed into ILC Program

The purpose of this course is for ILC students to develop lifelong, healthy habits with an understanding of how to cook a healthy and nutritious meals using proper cooking techniques. Emphasis is placed on proper hygiene while cooking, making healthy nutritional choices, preparing nutrient dense foods, and exploring careers related in the culinary field. Students will be charged a \$35.00 consumables fee.

PRACTICAL WORK APPLICATIONS



Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Staffed into ILC Program

emails, internet safety, and appropriate use of social media.

This program provides students with opportunities to practice vocational and work skills in authentic settings by participating in work opportunities on campus and in the community. Portions of this course may focus on technology including composing actually employed part time. A student needs to work approximately 15 hours per week or 90 hours per quarter to be eligible for credit. The student's special education case manager will monitor and evaluate the work experience.

Credit: .5

Term: 1 qtr.

#### **REACH PROGRAM**

The REACH curriculum and smaller class sizes meets the personal and academic needs of students with emotional difficulties. REACH program courses provide rigorous curriculum while supporting students in building emotional intelligence and healthy habits. Research-based behavior intervention in a community-based environment supports students in developing and practicing the skills necessary for post-secondary success.

#### **ELEMENTS OF CP ENGLISH 9**

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: Student with IEP and in the REACH program

This is a one-year course emphasizing the development of essential skills in reading, writing, speaking, and listening. The content includes an introduction to the various literary styles, vocabulary, applied grammar, and the structure of paragraphs and short essays. The pre-writing, writing, and revision process is stressed throughout the year. The Reach curriculum and smaller class size is designed to meet the personal and academic needs of students with emotional difficulties. Social skills and problem solving skills are taught through literature, and students use writing as a tool to express their feelings and express emotional

#### **ELEMENTS OF CP ENGLISH 10**

Credit: 1 Grade Level(s): 10 Term: Year Prerequisite: Student with IEP and in the REACH program

This is a one-year course that expands the student's understanding and appreciation of American, English, and European literature. Course content emphasizes critical thinking skills in both reading and writing. Expository essays, creative writing assignments, and a library paper are included in the writing program that continues the focus on the writing process. The Reach curriculum and smaller class size is designed to meet the personal and academic needs of students with emotional difficulties. Social skills and problem solving skills are taught through literature, and students use writing as a tool to express their feelings and express emotional issues.

#### **ELEMENTS OF CP ENGLISH 11**

Grade Level(s): 11 Credit: 1 Term: Year Prerequisite: Student with IEP and in the REACH program

This one-year course surveys a range of literary types - novels, short stories, poetry, and drama. Research-based intervention instruction reinforces, refines, and deepens the skills introduced and developed in English 9 and 10, including the reading, writing, critical thinking, rhetoric, and executive organization skills necessary for postsecondary success.

#### ELEMENTS OF FILM AND LITERATURE

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Student with IEP and in the REACH program

Students will study film as an art form and medium of literature. Through active viewing, reflective response, reaction papers, formal essays, and discussion, students will learn to judge quality. Emphasis is placed on furthering students' composition skills.

#### ELEMENTS OF MULTICULTURAL LITERATURE

Grade Level(s): 10-12 Credit: .5 Prerequisite: Student with IEP and in the REACH program

This course will introduce historical and contemporary perspectives of the roles that minorities and women have played. Using fiction, non-fiction, poetry, essays, and film, students will gain an understanding of achievements, contributions and myths of these groups so that they will not be limited by social and political mores. Students will read, discuss, view, and write about issues and concerns of the cultures studied.

#### **ELEMENTS OF ECONOMICS 1**

Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: Student with IEP and in the REACH program

This class satisfies district requirements for .5 social studies credit. This is a one semester course emphasizing the development of skills needed for post-secondary academic and vocational success. Students will research different schools that meet their individual academic and financial needs, and then apply reading, writing, mathematics, and executive functioning skills to complete necessary post-secondary preparatory activities such as college and job applications, college essays and cover letters, FAFSA applications, and professional letters, emails, and interviews

#### **ELEMENTS OF ECONOMICS 2**

Grade Level(s): 12 Credit: .5 Term: Sem Prerequisite: Student with IEP, in the REACH program & Elements of Economics 2

This class satisfies district requirements for .5 social studies credit. This one semester course expands on the skills developed in Elements of Economics 1, introducing students to the personal finance literacy of modern day economics. Students will identify sources of personal income and likely deductions and expenditures, then investigate and analyze different options for strategic spending, savings, and financial planning in order to create long and short-term financial plans.

#### ELEMENTS OF PSYCHOLOGY

Grade Level(s): 10 Credit: 1 Term: Year Prerequisite: Students with IEP and in the REACH Program

This is a yearlong course designed to help students better understand psychological theories, diagnoses, and human behavior. Curriculum will focus on scientific method, intelligence, personality, social development and psychiatric disorders.

#### **ELEMENTS OF SOCIOLOGY 1**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Student with IEP and in the REACH program

Students in this course focus on the impact of society on human behavior. Topics that will be discussed include social institutions, culture, communication, conflict, family, substance abuse, and causes of changing relationships in society. Major theories of sociology are applied to each topic. Current events will be incorporated throughout the year.

#### **ELEMENTS OF SOCIOLOGY 2**

Grade Level(s): 11-12 Credit: .5 Term: Sem Prerequisite: Student with IEP and in the REACH program

Students in this course focus on the impact of society on human behavior. Topics that will be discussed include social institutions, culture, communication, conflict, family, substance abuse, and causes of changing relationships in society. Major theories of sociology are applied to each topic. Current events will be incorporated throughout the year.

#### ELEMENTS OF US HISTORY

Grade Level(s): 9 Credit: 1 Term: Year Prerequisite: Student with IEP and in the REACH program

This course meets the district's U.S. history requirement for graduation. The course is designed for students who have reading, learning, or emotional difficulties. Materials are modified and individual attention is emphasized to help students succeed in United States history.

#### ELEMENTS OF WORLD HISTORY

Grade Level(s): 10 Credit: 1 Term: Year Prerequisite: Student with IEP and in the REACH program.

This course surveys world history from the emergence of civilization to the present day. Materials are designed to help students understand political, social, economic, and cultural forces across civilizations. The REACH curriculum and smaller class size is designed to meet the personal and academic needs of students with emotional difficulties.

#### ELEMENTS OF HEALTH

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Student with IEP and in the REACH program.

This course meets requirements for CCHS graduation credit. Discussions and activities on current issues in health-related areas, such as nutrition, physical fitness, diseases and disorders, mental health issues, stress management, self-concept, coping skills, first aid, human relationships, substance abuse and violence prevention, and reproductive health. The REACH curriculum and smaller class size is designed to meet the personal and academic needs of students with emotional difficulties.

#### ELEMENTS OF PHYSICAL EDUCATION

Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Student with IEP and in the REACH program

This class satisfies district requirements for .5 PE credit. Students will receive instruction in constantly varied functional movements performed at relatively high intensity. The class will follow a circuit style of fitness training. The course will explore ten fitness domains: cardiovascular and respiratory endurance; stamina; flexibility; power; speed; coordination; agility; balance and accuracy.

#### ACADEMIC SUPPORT LAB

Grade Level(s): 9-12 Credit: .5 Term: Sem
Prerequisite: Student with IEP and in the REACH program

This class satisfies district requirements for .5 elective credit. Students will learn self-management, executive functioning, self-advocacy, and self-regulated learning skills by: setting weekly academic and personal goals related to attendance, academic performance, and personal goals; meeting with their case manager or ASL teacher weekly to discuss progress on goals; recording and charting progress on attendance, grades, missing assignments and overall academic level; and recording progress to case manager and/or guardian each week.

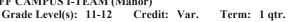
#### LIFE SKILLS

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Student with IEP and in the REACH program

This semester long class is designed for students in the REACH program. It fulfills one .5 general elective or fine art credit. This course utilizes art and music therapy to support students in building emotional intelligence. Students will work on developing goals, study skills, and social skills that will help them be successful at the high school and post- secondary level. Students will also participate in fundraising activities, community and team building exercises - including accessing the ropes/adventure course for experiential education as well as several activities focusing on career exploration and post-secondary planning

#### **OFF CAMPUS I-TEAM (Manor)**

is an alternative program.



**Prerequisite:** Student with IEP

This program offers full curriculum for the older student with severe adjustment problems to school and adolescence and/or severe learning disabilities. The goal is to complete requirements for graduation. A full curriculum is offered. Credit is granted as 1/4 credit for each course successfully completed per quarter. This



#### Students registering for any of the following special courses must be aware of the following policies.

- 1. Permission or approval must be obtained from the CCHS teacher or CCHS supervisor involved in a particular course before the student is considered enrolled in the course.
- 2. Seniors will be permitted to enroll in a maximum of two different assist courses per semester and credit can be earned for each course per semester.
- 3. Freshmen and sophomores may be permitted to enroll in and receive credit in only one course per semester.
- 4. Grades earned in these courses will not be computed in the grade point average and will earn an "S" or US.".
- 5. Credit earned in these courses will not substitute for required courses.

#### OFFICE ASSISTANT

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Grade Level(s): 9-12 Credit: .5 Term: Sem
Prerequisite: Permission of respective teacher/administrator

Students will provide office assistance under the direction and supervision of a teacher or other office personnel.

#### PEER AMBASSADORS

Grade Level(s): 12 Credit: 1 Term: Year Prerequisite: Application & Interview

The Peer Ambassador program is designed to train a small group of 12th grade students as peer tutors/mentors for the student body at Cherry Creek High School. Peer Ambassadors meet weekly in a classroom setting to learn essential counseling skills that enable them to help other students with school related issues, personal and social problems, and academic performance. In addition to the weekly meetings, Peer Ambassadors will work in the counseling office during one class period every day for the course of their entire senior year. Peer Ambassadors provide students with resources and relationships that will enhance their overall experience at Creek, as well as engage in other community building activities in an effort to make our large school feel smaller. Essential responsibilities include, but are not limited to: planning and running New Student Orientation; following up with new students and freshmen throughout the year to ensure a successful transition to Creek; tutoring students referred by teachers and counselors; guiding tours of campus for new and prospective students and families; and, actively engaging in a positive messaging campaign throughout the course of the academic year. Students interested in the Peer Ambassador program must complete an extensive application and interview process in the spring of their junior year and, if chosen, be willing and able to volunteer for school-sponsored events throughout their senior year that often occur outside of the normal school day.

#### STUDENTS SUPPORTING STUDENTS



Grade Level(s): 11-12 Credit: .5 Prerequisite: Teacher approval

Students will play the role of a peer mentor. Peer mentors will assist students with disabilities in special education or general education classes. Peer mentors will learn about special education, inclusion, and awareness of disabilities. Peer mentors will provide positive motivation and interaction in the learning environment. This class is a wonderful opportunity for any who enjoy Open Arms Club, Unified Sports or are interested in becoming a teacher. This course earns elective credit only.

#### STUDENT SENATE



Grade Level(s): 9-12 Credit: 1 Prerequisite: Election to office Term: Year

Student Senate is the student organization made up of elected student body officers and elected senators from each class. This class meets each day during period 8. Student Senate is responsible for various student activities and bringing student concerns before the administration. Students must attend mandatory

#### TEACHER ASSISTANT

events outside of the school day.



Grade Level(s): 9-12 Credit: .5 Term: Sem Prerequisite: Approval of Instructor

This course is designed for students expressing a desire to assist a particular department with clerical and other tasks as needed. The purpose of the course is to help the student learn what preparation is necessary for the department or teacher before a lesson can be taught to the students.

#### **SUPPORT COURSES**

FRESHMEN ADVISORY

Grade Level: Required for all 9th grade students Credit: .25

Term: Year Prerequisite: None

Freshmen Advisory is designed to help freshmen make a successful transition to high school. This mandatory course, taught by faculty advisors, meets once a week for the full school year and focuses on policies and procedures at Cherry Creek High School, as well as study skills and academic planning as it relates to high school graduation and college admission requirements. Individualized Career and Academic Plans (ICAPs) will be initiated in Freshmen Advisory. Students will also meet with the individual counselor for a conference in the fall. This course offers students the opportunity to build relationships with peers and the advisor. There is a focus on the social and emotional well-being of all students in this course. Classes are built in coordination with the safety plan so the school can support students with an advisor, dean, counselor and mental health expert. A final grade of "S" or "US" will be posted on student transcripts at the end of each semester.

SOPHOMORE ADVISORY

Grade Level: Required for all 10th grade students Credit: .25

Term: Year Prerequisite: None

Sophomore Advisory has an academic planning element specific for sophomores taught by the student's advisor. A component of the course is career and college exploration using Family Connection by Naviance, Students will continue to work on and update their ICAPs. This course offers students the opportunity to build relationships with peers and the advisor. There is a focus on the social and emotional well-being of all students in this course. Classes are built in coordination with the safety plan so the school can support students with an advisor, dean, counselor and mental health expert. A final grade of "S" or "US" will be posted on student transcripts at the end of each semester.

JUNIOR ADVISORY

Grade Level: Required for all 11th grade students Credit: .25

Term: Year Prerequisite: None

Junior Advisory has an academic planning element specific to juniors taught by the student's advisor. This course has an increased emphasis on preparing students for high school graduation and exploring post graduate plans. Students are required to schedule and attend a Junior Conference (an individual appointment with the student's parents and assigned counselor), and continue to update and complete required ICAP tasks. We also recommended that students and parents attend the Saturday "Creek to College" workshop offered on a Saturday during the fall semester. This course offers students the opportunity to build relationships with peers and the advisor. There is a focus on the social and emotional well-being of all students in this course. Classes are built in coordination with the safety plan so the school can support students with an advisor, dean, counselor and mental health expert. A final grade of "S" or "US" will be posted on student transcripts at the end of each semester.

SENIOR ADVISORY

Grade Level: Required for all 12th grade students Credit: .25

Term: Year Prerequisite: None

Senior Advisory has an academic planning element specific to seniors taught by the student's advisor. This course continues the focus on preparing for high school graduation and post graduate plans. Students will attend the Creek 401 Assembly in the fall semester and schedule and attend their Senior Conference, an individual appointment with their assigned counselor, to review graduation plans and assist students with the college application process. ICAP tasks for seniors also include the requirement that every student applies and plans for post graduate opportunities. This course offers students the opportunity to build relationships with peers and the advisor. There is a focus on the social and emotional well-being of all students in this course. Classes are built in coordination with the safety plan so the school can support students with an advisor, dean, counselor and mental health expert. A final grade of "S" or "US" will be posted on student transcripts at the end of each semester.

CCIC ADVISORY

Grade Level: 10-12 Credit: .25

Term: Year Prerequisite: None

CCIC Advisory is designed to provide students who attend CCIC (Cherry Creek Innovation Campus) an academic planning element specific to their coursework by the student's advisor. This course continues the focus on preparing for high school graduation and post graduate plans. Students will schedule and attend their Junior or Senior Conference, an individual appointment with their assigned counselor, to review graduation plans and assist students with the college application process. A component of the course is career and college exploration using Family Connection by Naviance, Students will continue to work on and update their ICAPs. ICAP tasks for seniors also include the requirement that every student applies and plans for post graduate opportunities. This course offers students the opportunity to build relationships with peers and the advisor. There is a focus on the social and emotional wellbeing of all students in this course. Classes are built in coordination with the safety plan so the school can support students with an advisor, dean, counselor and mental health expert. A final grade of "S" or "US" will be posted on student transcripts at the end of each semester.

AVID (9, 10, 11, 12)

Grade Level(s): 9-12 Credit: 1 Term: Year Prerequisite: Application through Counseling and AVID Coordinator

The AVID elective is a college-preparatory course for students' to work on accelerating their academic achievement and college readiness potential. AVID curriculum begins with focus on critical thinking, inquiry and organization skills ranging from note taking to study habits, and builds throughout the four-year program to include standardized test preparation and the college admissions process.

FRESHMAN ENRICHMENT SEMINAR

Grade Level(s): 9 Credit: .5 Term: Sem

Prerequisite: Referral

This course is a semester long course that is for students who have struggled to find success in their first semester of high school. The goal is to provide students with more academic structure and instruction to support successful academic skills. Instruction will model what successful students do, providing opportunities for students to meet with teachers, seek tutoring and work on school work. Topics to be discussed are: Exploration of Struggle, What Success Looks Like, Note Taking, Reading Strategies, Self-Advocacy, Study Skills and more.

SOPHOMORE ENRICHMENT SEMINAR

Grade Level(s): 10 Credit: 1 Term: Year

Prerequisite: Referral

SES is a program designed to help sophomore students improve their academic performance. The program is intended for capable students who have not yet experienced academic success at Cherry Creek High School. The class will focus on skill development, goal setting, problem solving, critical thinking, time management, and college and career planning.

JUNIOR ENRICHMENT SEMINAR

Grade Level(s): 11 Credit: .5 Term: Sem

Prerequisite: Referral

This semester long course is geared toward students who have struggled in different areas during their first two years of high school. The instructors will guide students through a process of self-discovery that will empower them to build skills that will allow them to be more successful in a social as well as academic setting. A list of topics might include: The Power of Listening, Perspectives, Playing the Game, Knowing One's Self, Relationships, conflict Resolution, Character, Self-Advocacy, Intention and Motivation.



# EDUCATIONAL PARTICIPATION IN COMMUNITIES (EPIC) OFF CAMPUS COURSES

The EPIC Program seeks to involve students and other adults in activities that encourage them to be actively concerned with other people. Students will be trained to work in cooperation with existing agencies in the Denver metropolitan area and beyond. Each student must work at his/her assignment regularly, attend feedback sessions, and operate upon the format established by the program instructor. Unstructured or after-school-time will be used for on-the job experiences involving at least 60 hours per semester, in addition to feedback sessions. EPIC courses are not considered part of the required 5/6 courses students must take per semester. Only one EPIC course can be taken at a time for credit but can be repeated every year. General credit only and a satisfactory/unsatisfactory (U or S) is given.

REGISTRATION IS TENTATIVE BASED ON THE AMOUNT OF STUDENT INTEREST IN EACH COURSE. THE TIMES COURSES ARE OFFERED WILL BE ANNOUNCED LATER. HOWEVER, MOST COURSES WILL BE OFFERED AFTER SCHOOL.

#### MEDICAL VOLUNTEERS

Grade Level(s): 10-12 Credit: .5 Term: Sem Prerequisite: Application. Interest in medical professions and courses in science.

This class meets for 4-5 hours per week. Arrangements will be made to have students work as a volunteer in a medical facility or with medical professionals in the Denver Metropolitan area. It may be service or research oriented. Previous experiences, acquaintances or visits with someone in a medical facility are helpful in obtaining a desirable assignment. Students will be evaluated by the agency supervisor and a Cherry Creek Instructor.

#### MEDICAL CAREERS

Grade Level(s): 11-12 Credit: .5 Term: Sem

Prerequisite: None

This course takes place at Cherry Creek High School before school. In the Epic Medical Careers class, students are introduced to career opportunities through a unique series of lectures. Students will hear from professionals from the medical community such as a plastic surgeon, bio-chemical warfare specialist, emergency room doctor, nurse, genetic counselor, pediatrician, X-ray technician, as well as professionals from the business management and legal careers related to medicine. Students are presented information about each specialty along with the education and other requirements for the many career options within the medical industry. Students may participate in field trips to see how medical professionals are learning, as well as be a part of an emergency room simulation, labor/delivery simulation, and cadaver lab, to which students will see the human body and internal organs.





# CHERRY CREEK **INNOVATION CAMPUS**

2023-2024 Course Catalog

www.cherrycreekschools.org/CCIC

















**APPLY TO CCIC** 





**CCIC WEBSITE** 



**CCIC VIDEO** 



# **CCIC PROGRAMS EXPLAINED**



Career & Technical Education (CTE) is a national program with courses teaching core academics, technical, and job-specific skills. CTE classes and programs like internships and apprenticeships, are designed to provide students with tools necessary to succeed in post-secondary education and career. All high schools in the Cherry Creek School District offer CTE courses. (CTE Website)



Cherry Creek Innovation Campus (CCIC) is a stand-alone CTE facility which opened in August, 2019. Courses at the CCIC align with the industry standards for seven in-demand and growing career pathways. Many courses offer core academic credit in English, Math, or Science and/or college credit. Transportation to and from CCIC is provided at all home high schools.



Concurrent Enrollment / Dual Enrollment (CE/DE) is an opportunity for students to earn high school and college credit simultaneously. Many courses in the Cherry Creek School District (CCSD) offer concurrent/dual enrollment credit through local colleges. As an additional benefit, CCSD will pay the tuition for students who apply for the College Opportunity Fund (COF). College credit can only be earned with a grade of 'C' or better.



Industry Certifications and Certificates are available in many CTE programs. An industry certification/certificate is recognized by business and industry at the local, state or national level. These certificates measure competency in an occupation, and they validate the knowledge base and skills that show mastery in a particular industry. Some certifications and certificates will be accepted for a student's demonstration of learning according to Graduation Guidelines. See your counselor for more information.



Career & Technical Student Organizations (CTSO) are key components to strong CTE programs. These student run organizations develop business and industry-specific skills, procedures, and values that align with coursework, activities, and events in the classroom and greater community. Students also have the opportunity to demonstrate these acquired skills at regional, state and national competitions.



Work-Based Learning is a continuum of activities that occur, in part or in whole, in the workplace, providing the learner with hands-on, real world experience and is an integral part of a student's experience at CCIC. CCIC offers work-based learning at all levels:

Learning About Work, Learning Through Work and Learning at Work. (WBL Continuum Chart)

The <u>CTE</u> Executive Internship and Apprenticeship programs connect students with career pathways of interest by partnering with businesses in the community. CTE partners with CCIC to identify Internship and Apprenticeship opportunities in all CCIC Pathways.





Scan to <u>watch a video</u> about Apprenticeships

# **CCIC REGISTRATION PROCESS**

#### To register for CCIC courses:

#### Step 1: MyCAP Planning

Use your MyCAP to help select a CTE pathway that fits your career and academic goals. Based on your career goals, you may choose to apply for a CTE course that is offered at the Cherry Creek Innovation Campus (CCIC), or through the District CTE program.

#### **Step 2: Course Selection**

Use the information in the course catalog to help plan your course selection. Make sure you meet the grade-level requirements and any prerequisites required.

#### Step 3: Counselor Input

After you've selected a CCIC or District CTE course that fits your ICAP, consult your counselor to ensure the courses will fit with your home high school schedule and will allow you to complete all courses necessary for graduation.

#### Step 4: Application

Once you have received counselor approval, complete the <u>online application</u>, opening on **January 17**, **2023**. A link to the online application can be found on the CCIC website and in registration links on home high school websites. **Applications must be submitted by Friday, March 3, 2023**. In addition to the application, some courses may require a supplemental application and/or attendance at an informational meeting.

#### **Step 5: Confirmation**

After submitting an application, you will receive a confirmation email, as well as information regarding additional application requirements. Note that all application requirements must be completed in order to be considered for acceptance. Notification of acceptance into a CCIC or District CTE course will occur by email in mid/late April. Students will also be notified by email in mid/late April if they are on a wait list for requested courses.

# APPLICATION DUE: FRIDAY, MARCH 3, 2023

Transportation provided to and from each home high school. Financial assistance available to students who qualify.

#### NOTIFICATION OF NONDISCRIMINATION

Cherry Creek School District No. 5 does not discriminate on the basis of race, color, national origin, sex, age, sexual orientation or disability in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of their operations. The Cherry Creek School District No. 5 Career and Technical Education Department does not discriminate in enrollment or access to any of the programs available. The lack of English language skills shall not be a barrier to admission or participation in the district's activities and programs. The Cherry Creek School District also does not discriminate in its hiring or employment practices.

This notice is provided as required by Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. Questions, complaints, or requests for additional information regarding these laws may be forwarded to the designated compliance coordinator: Ms. Stephanie Davies, District Compliance Officer, Educational Services Center, 4700 S. Yosemite St., Greenwood Village, CO 80111, (720) 554-4471. or directly to the U.S. Department of Education, Office for Civil Rights, Region VIII, Federal Office Building, 1244 North Speer Blvd., Suite #310, Denver, CO 80204.

# **CCIC CORE CLASSES**

CCIC core content is integrated within our pathway curriculum and meets district core standards requirements for graduation. \* All CCIC core classes are NCAA approved.



<u>CP Innovator's English A (Effective Communication, Writing, and Career Success)</u> - In this integrative English course, students demonstrate career & college readiness, developing leadership skills, research, & writing skills that will enable them to be successful in their pathway of purpose. Students in this course also participate in many collaborative settings where they will use rhetorical strategies to reach a decision with others who have diverse ideas. To be successful, students must contribute to conversations in professional manners. Students conduct research relating to issues in their industry, problem solving those issues to invite diversity into their writing and conversations. Students write in APA format, citing sources and developing their informational literacy skills. This course can be repeated for credit.



<u>CP Innovator's English B (Research and Writing)</u> – In this course, students will use argumentation, research processes, and reflection to continue to develop and experiment with their writing. It will also use an active learning approach in writing, reading, and communication processes to integrate topics into potential careers. Students will complete a college and career research project according to the APA style guide that enables them to confidently transition to post-secondary realms. This course involves continued emphasis on the writing process, critical thinking, the rhetorical nature of language, and furthers their research skills. This course can be repeated for credit.



<u>CP Innovator's English C (Technical Writing & Integrated Research)</u> – This integrated English course teaches the fundamentals of writing and pathway or industry-specific technical documents with structure, organization, diction, style, revision, editing and mechanics. Students will write for specific industry-related purposes including, but not limited to: professional emails, training manuals, business proposals, blog creation and response, professional interviewing, podcast creation, and social media content writing. Finally, students will conduct research as necessary for the pathway and industry curriculum, gathering relevant information from multiple print sources related to the task. By the end of the course, students will be able to read, analyze, summarize, and apply technical information and plain language as appropriate for career preparation. \* This course may offer CE Credit (ENG 1031) and may be repeated for credit.



<u>CP Innovator's Math Topics A</u> - This course will extend students' proficiency in fundamental arithmetic topics to in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. This course can be repeated for credit.



<u>CP Innovator's Math Topics B</u> - This course will extend students' proficiency in fundamental arithmetic topics to more advanced algebraic topics, including the application of trigonometric functions, standard deviation, matrix and vector analysis, logarithmic and exponential relationships, and linear systems. This course can be repeated for credit.



<u>CP Innovator's Math Topics C</u> - This course will extend students' proficiency in the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, and the analysis of potential solutions. This course can be repeated for credit.



<u>CP Innovator's Math Topics D</u> – Innovator's Math D will expand on students' proficiency in number theory and discrete mathematics topics as it applies to technology. Topics may include number systems, basic combinatorics, modular arithmetic, and prime numbers. This course can be repeated for credit.



<u>CP Innovator's Life Science</u> - Students will use a full range of science and engineering practices to make sense of natural phenomena and solve problems that require an understanding of how individual organisms are configured and how these structures function to support life, growth, behavior and reproduction. This course can be repeated for credit.



<u>CP Innovator's Physical Science</u> - Students can use the full range of science and engineering practices to make sense of natural phenomena and solve problems that require understanding structure, properties and interactions of matter. This course can be repeated for credit.



# ADVANCED MANUFACTURING

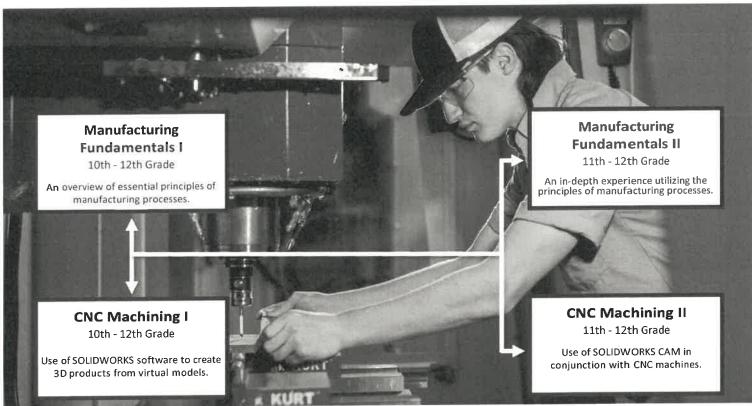






Scan to <u>watch a video</u> about the Advanced Manufacturing Pathway





#### MANUFACTURING FUNDAMENTALS I

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/ .5 MTH B

EST. FEES: \$150

Prerequisites: N/A

Concurrent Enrollment: Community College of Denver (MAC 1000, MAC 2040)

Certifications: Certified SOLIDWORKS Associate - Additive Manufacturing (CSWA-AM)



Course Description: This course is designed to provide students with the skills and knowledge to be effective in production environments as a machinist, CNC operator, or supervisor. Upon completion of this course, proficient students will demonstrate safety practices concerning machining technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Students will complete projects using various manufacturing techniques and build intermediate skills involving manufacturing techniques. Upon completion of this course, students will be knowledgeable about potential postsecondary education and career opportunities related to machining technology and will be prepared to enroll in more advanced machining courses in high school. Students will create real world projects using CNC Plasma Cutters, Water Jet Cutters, Routers, Injection Molders, Additive Manufacturing (3D Printing) and Vacuum Formers.

Suggested prerequisite skillsinclude CAD (Computer Aided Design) and hands-on experience with machines.



# ADVANCED MANUFACTURING



**CNC MACHINING I** 

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/ .5 MTH B EST. FEES: \$150

Prerequisites: N/A

Concurrent Enrollment: Community College of Denver (MAC 1000, MAC 1002)

COMMUNITY COLLEGE OF DENVER



MthB

Certifications: N/A

**Course Description:** This course covers fundamentals of computer numerical control (CNC), basic programming, machine setup and operation of CNC machines. The course begins with manual programming practices so that the student will understand the programming code and its structure. Geometric Dimensioning & Tolerancing codes; G & M codes, control functions, the letter address system, and math issues related to CNC are included. Standard safety conventions will be introduced for safe programming practice. This course allows for the further development of CNC skills with hands-on instruction related to the CNC milling machines, and CNC turning centers. The lab work includes operation of CNC machines to demonstrate the programming skills.

Suggested prerequisite skills include CAD (Computer Aided Design) and hands-on experience with machines

#### MANUFACTURING FUNDAMENTALS II

GRADES: 11-12 LENGTH: 1 YEAR CREDITS: 1.0 CTE/ 1.0 MTH B EST. FEES: \$150

Prerequisites: Manufacturing Fundamentals and CNC Machining

Concurrent Enrollment: N/A

Certifications: Stratasys Additive Manufacturing Certification and Certified SOLIDWORKS Associate – Additive

Manufacturing (CSWA-AM)

Course Description: This course is designed to provide students with the skills and knowledge to be effective in production and engineering environments as a machinist, technician, CNC operator or supervisor. Upon completion of this course, proficient students will demonstrate safety practices concerning machining technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Students will complete projects using various manufacturing techniques and build intermediate skills involving manufacturing techniques. Upon completion of this course, students will be knowledgeable about potential postsecondary education and career opportunities related to machining technology and will be prepared to enroll in more advanced machining courses in high school. Students will create real world projects using CNC Plasma Cutters, Water Jet Cutters, Routers, Injection Molders, Additive Manufacturing (3D Printing) and Vacuum Formers.

#### **CNC MACHINING II**

GRADES: 11-12 LENGTH: 1 YEAR CREDITS: 1.0 CTE/ 1.0 MTH B EST. FEES: \$150

Prerequisites: Manufacturing Fundamentals and CNC Machining

Concurrent & Dual Enrollment: Community College of Denver (MAC 2005) / Metro State University of Denver (MET 2010), \$50 additional fee per MSU credit, 3 credits.

Certifications: National Institute of Metalworking Skills (NIMS)

**Course Description:** This course prepares students to enter the manufacturing/production industry, specifically covering CAD/CAM systems, geometric modeling, process planning, tool path generation. Course content includes programming and production of complex parts. Projects focus on solid modeling for design and manufacturing applications as well as the use of commercial CAD/CAM software for automating the production cycle. Special content addresses CNC mill and lathe setups and operations not covered in the basic CNC Machining. NIMS certification preparation and testing are included in course content.







# **BUSINESS SERVICES**







## PROJECT MANAGEMENT FOR ENTREPRENEURS I

GRADES: 10-12 LENGTH

**LENGTH: 1 SEMESTER** 

CREDITS: .5 CTE/ .5 ENG A

EST. FEES: \$80

Prerequisites: N/A

Concurrent Enrollment: Arapahoe Community College (ENP 1005, MAN 2041)

**Certifications:** Certified Associate Project Management (CAPM) upon completion of PM4EI and PM4EII (may be earned in grade 12 only)

Course Description: By definition, project management is a temporary endeavor undertaken to create a unique product, service, or result. Project Management for Entrepreneurs I explores the fundamentals of project management with an entrepreneurial slant. Business and marketing concepts, including organizational communication, human resources management, entrepreneurship, accounting, finance, and leadership are explored. The course investigates the concepts and applicability of project management within organizations by examining the unique nature of projects, the need for integrated decision-making, and the stages of the project life cycle. The creation of a unique product, service, or idea that solves a problem in your community is required. This process will include collaboration on a sales pitch and business plan adopting the Business Canvas Model.

Suggested Prerequisites include Introductory Business and/or Marketing Course.

### PROJECT MANAGEMENT FOR ENTREPRENEURS II

GRADES: 10-12 LENGTH

**LENGTH: 1 SEMESTER** 

CREDITS: .5 CTE/ .5 ENG B

EST. FEES: \$80

Prerequisites: Successful Completion of Project Management for Entrepreneurs I

Concurrent Enrollment: Arapahoe Community College (MAR 1006, ENP 2005)

ACC En

**Certifications:** Certified Associate Project Management (CAPM) upon completion of PM4EI and PM4EII (may be earned in grade 12 only)

**Course Description:** Project management is a rapidly growing profession. Project Management for Entrepreneurs II presents a series of marketing challenges to teams of student project managers with the winners announced at the end of the semester. This course continues to prepare students in understanding how project management skills can assist in promoting an entrepreneurial venture. Students gain insights essential for using digital media to market their ideas, using innovative and financially responsible marketing strategies that are both traditional and non-traditional in nature.



# **BUSINESS SERVICES**





# PROJECT MANAGEMENT FOR ENTREPRENEURS III

**GRADES: 11-12** 

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 ENG C | EST. FEES: \$80

Prerequisites: Project Management for Entrepreneurs | & ||

Concurrent Enrollment: Arapahoe Community College (MAR 1060, MAN 2043)



Certifications: Certified Associate Project Management (CAPM) upon completion of PM4EI, PM4EII, & PM4EIII (may be earned in grade 12 only) Course Description: This course enables students to understand how project management skills are necessary to build

customer relations and service practice. Enrolled students learn how to problem solve and understand the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building positive customer rapport and creating outcomes related to industry. In addition, this course examines Customer Relationship Management (CRM) and its application in marketing, sales, and service industry.



# CTE CAPSTONE BUSINESS

**GRADES: 11-12** 

**LENGTH: 1 SEMESTER** 

CREDITS: .5 CTE/ .5 ENG C

**EST. FEES: \$100** 

Prerequisites: Any CCIC student completing a pathway at CCIC is eligible to take the CTE Capstone course. A teacher recommendation is required.

ACC A

Concurrent Enrollment: Arapahoe Community College (MAN 2024, MAN 1028)

Certifications: Certified Associate Project Management (CAPM) upon completion of PM4EI and PM4EII (may be earned in grade 12 only)

Course Description: While working in teams, students who have completed any CCIC pathway will solve real world problems faced by our business partners who will act as project sponsors. The teams will then initiate, plan, execute, monitor and control, and close the project by presenting the sponsor with the deliverable and/or solution. All team members must be willing to improve their skills in collaboration, leadership, time management, teamwork, commitment, and perseverance. This course can be repeated for credit.



# **HEALTH & WELLNESS**



### Introduction to Health Care

10th-12th Grade Exploration of healthcare careers and content related to basic anatomy & physiology.

Suggested prerequisite for courses in the Health & Wellness pathway

### **Certified Nurse Aide**

11th-12th Grade Students prepare to perform patient care in a nurse aide role.

### Behavioral Health Technician

11th-12th Grade Students explore and apply basic principles of behavioral and mental health.

### Introduction to PT & OT

11th-12th Grade Course prepares students for patient care as a physical and occupational therapy aide.

## Pharmacy Technician

12th Grade Students learn the role and function of pharmacy technicians.









# INTRODUCTION TO HEALTH CARE

**GRADES: 10-12** 

LENGTH: 1 SEMESTER | CREDITS: .5 CTE/ .5 LIFE SCI

EST. FEES: \$46

Prerequisites: N/A

**Concurrent Enrollment**: Arapahoe Community College (HPR 1040)

Certifications: Basic Life Support (BLS) through American Heart Association CPR/FAS/AED



Course Description: Introduces the concepts and skills needed in health care incorporating foundational theory with professional skills. The course gives an overview of the pathways within health sciences focusing on: career exploration, principles of patient care, concepts of ethics, and personal and environmental safety. Introduces the structure of medical terms with emphasis on using and combining common prefixes, roots and suffixes in relation to the body systems with their related conditions and diseases.

# **CERTIFIED NURSE AIDE (CNA)**

GRADES: 11-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/ .5 LIFE SCI

Prerequisites: Basic Life Support (BLS) through American Heart Association CPR/FAS/AED (offered on select

Saturdays at CCIC or through a third-party provider)

Concurrent Enrollment: N/A

Certifications: NNAAP Nurse Aide (CNA)

LifSci

Course Description: The Nursing Assistant program offers an introduction into the nursing profession with an emphasis on entry-level employment as a nursing assistant. Students are provided instruction on the fundamentals of nursing care through lecture, skills lab and a clinical rotation in preparation for the Colorado State Nurse Aide Certification (NNAAP) exam. In this course, students learn to work as a part of the interdisciplinary team in managing the emotional, social, and mental health needs of patients and residents. Fundamental skills of the nurse aide include: Basic nursing skills, communication skills, restorative services, personal care skills, and safety and emergency care issues. In addition, students learn the principles of asepsis, OSHA and HIPAA regulations, ethical behaviors, cultural sensitivity and principles of mental health and patient / resident rights. Students will provide hands-on care to patients and residents during supervised clinical learning experiences at several local Long-Term Care facilities.

Suggested prerequisite: Introduction to Health Care



# **HEALTH & WELLNESS**



# **BEHAVIORAL HEALTH TECHNICIAN**

**EST. FEES: \$78** LENGTH: 1 YEAR LENGTH: 1.0 CTE / 1.0 ENGLISH A **GRADES: 11-12** 

Prerequisites: N/A

Concurrent Enrollment: Pueblo Community College (PTE 1010, PTE 1020)

Pueblo

**EngA** 

LifSci

∕⁄‱ ACC

Certifications: Behavioral Health Technician certificate preparation, Basic Life Support (BLS) through American Heart Association CPR/FAS/AED

Course Description: This course explores the basic principles of behavioral health in a behavioral health care setting. This course develops interpersonal and technical skills while working with clients in psychiatric care settings. Students obtain skills used daily by Behavioral Health Technicians (BHT's) such as therapeutic communication and relationship building and conducting psychoeducational therapy groups. Students will also explore aspects of mental health and factors that influence human development and behavior. Opportunities in the field may be available to students second semester.

Suggested prerequisite: Introduction to Health Care

Additional fees will be required for off-campus experiences.

# INTRODUCTION TO PHYSICAL & OCCUPATIONAL THERAPY

CREDITS: 1.0 CTE/ 1.0 LIFE SCI EST. FEES: \$55 **GRADES: 11-12 LENGTH: 1 YEAR** 

Prerequisites: N/A

Concurrent Enrollment: Arapahoe Community College (PTA 1015)

Certifications: American Red Cross CPR/FAS/AED

Course Description: This course combines Introduction to Physical Therapy and Occupational Therapy. In PT, we explore the history of the profession including definition, development and areas of practice. The role of the APTA, the physical therapist assistant and the relationship between the physical therapist, PTA and other health care professionals are investigated. Includes current issues including professionalism, ethics, communications and health insurance. In OT, we explore career options in Occupational Therapy through discussion, observation and participation. Identifies the need for areas of occupation and the differences between health, illness, and wellness. Describes the history and philosophy of Occupational Therapy, and the roles, responsibilities, and relationships between other health care professionals. Discusses ethical and legal implications of health care and explores basic sociological issues. Ambulation skills, manual skills, and a moderate amount of human anatomy and modalities in physical therapy are taught.

Suggested prerequisite: Introduction to Health Care

# **PHARMACY TECHNICIAN**

CREDITS: 1.0 CTE/ 1.0 LIFE SCI **LENGTH: 1 YEAR GRADES: 12** 

EST. FEES: \$154

Prerequisites: Algebra I

**Concurrent Enrollment: N/A** 

Certifications: Certified Pharmacy Technician (CPhT), Basic Life Support (BLS) through American Heart Association

CPR/FAS/AED

Course Description: This course combines foundations of pharmacology, pharmaceutical care and knowledge with hands-on applications. Students will explore real-world application of a pharmacy technician working with a licensed pharmacist in a variety of clinical and retail settings. We explore pharmacy history and laws, federal and state regulations and ethics, medical and pharmaceutical terminology, pharmacy calculations and conversions, sterile and non-sterile compounding, and communicative customer service. Students will also examine essential medical topics such as body systems, common diseases and conditions, and medication errors. This course prepares students to sit for the nationally recognized Pharmacy Technician Certification Exams. This preparation includes learning the 200 most common medications. Suggested prerequisite: Introduction to Health Care

LifSci



# OSPITALITY &



# HOSPITALITY MANAGEMENT PATHWAY

### Resort & Event Management

10th-12th Grade Length: 1 year

Do you love serving and connecting with others? Then the hospitality industry might be perfect for you! Explore the endless career opportunities in hospitality through executing real events, site visits across Colorado, networking with industry professionals, and gaining hands-on internship experiences with our partners!

# **Hospitality Youth Apprenticeship**

11th-12th Grade Length: 1 year

This second-year program is an extension of the first year program. Students begin with leadership training, professional skills practice, event management, and developing their online portfolio. Students then complete their youth apprenticeship experience on site with an industry partner.



# **RESORT & EVENT MANAGEMENT**

**LENGTH: 1 YEAR GRADES: 10-12** 

CREDITS: 1.0 CTE /1.0 ENG B

EST. FEES: \$165

Prerequisites: N/A

Dual Enrollment: Metro State University of Denver (HTL 1010 & HLDR 1000), \$50 additional fee per credit,

6 credits

Certifications: CGSP (Certified Guest Service Professional), ServSafe Food Handler, and HTS (Hospitality & Tourism Specialist).

Includes a 100 hour internship.

Course Description: This two-year industry-developed curriculum by the American Hotel and Lodging Educational Institute covers careers in hospitality and restaurant operations, customer service, sales, marketing, employability and soft skills, communication, guest experience cycle and food and beverage services. Successful participants in the program will have the opportunity to receive college credits, earn industry certifications and credentials, participate in a mentored internship off site and at our on-site café., and apply for industry scholarships. CCIC students will also have the opportunity to earn internship hours through our on-site cafe.

# **HOSPITALITY YOUTH APPRENTICESHIP**

**GRADES: 11-12** 

**LENGTH: 1 YEAR** 

CREDITS: 1.0 CTE/1.0 ENG C

**EST. FEES: \$110** 

**Prerequisites: Resort & Event Management** 

Concurrent Enrollment: Arapahoe Community College (ENG 1031) - available to students with an unweighted 3.0 cumulative GPA.

Certifications/Trainings: CFDR (Certified Front Desk Representative), ServSafe Manager, AHLEI Hospitality Manager: Leadership Training, AHLEI Sexual Harassment Prevention, Unconscious Bias Training

Course Description: This senior-level experience allows students to expand upon and apply the knowledge, skills, and abilities gained from the Resort & Event Management program. During the first quarter, the focus is on developing leadership skills, event planning, marketing, managing banquets/events, and networking to create their youth apprenticeship opportunity alongside their instructor. Once placed (starting quarter 2), students will go to their apprenticeship site during CCIC class hours where they will learn, practice, and be evaluated by their site mentor as well as CCIC instructor. Students will meet as a class at the CCIC bi-weekly to discuss their learning experiences, challenges, and possible solutions. NOTE: Students will need the ability to drive to their apprenticeship site or get a ride from a parent.





# **CULINARY MANAGEMENT PATHWAY**

### ProStart I/ProStart II

10th-12th Grade Length: 1 year

Food safety and sanitation, commercial equipment, and cooking methods for soups, sauces, stocks and more. Menu design, business operations, and cooking methods for meats, pasta, desserts, and more.

\*ProStart prerequisite: If you are a Grandview or Smoky Hill student, one year of ProStart at your home school is required

# **ProStart Youth Apprenticeship**

11th-12th Grade Length: 1 year

A second-year, youth apprenticeship program where students are enrolled in the National Restaurant Association's Restaurant Youth Registered Apprenticeship program and run the CCICafé and execute caterings.

# PROSTART I / PROSTART II

GRADES: 10-12 LENGTH: 1 YEAR CREDITS: 2.0 CTE EST. FEES: \$175

Prerequisites: N/A

\*GHS/SHHS students only - one year of ProStart from home school required

METROPOLITAN STATE UNIVERSITY OF DERVER

**Dual Enrollment:** ProStart I - Metro State University of Denver (RST 1550); ProStart II - Metro State University of Denver (RST 2550), \$50 additional fee per Metro State University credit, 6 credits

**Certifications:** ServSafe Food Handler, Workforce Readiness Certificate, ProStart National Certificate of Achievement (additional certifications available upon request)

Course Description: This pre-apprenticeship course from the National Restaurant Association Educational Foundation and Colorado Restaurant Foundation introduces students to a competency-based foodservice & hospitality management curriculum offered to students in grades 10-12. It is a study of culinary arts, restaurant and lodging management, employability skills, and business entrepreneurship coupled with paid mentored work internships in a broad spectrum of industry restaurant, foodservice, and lodging operations. Students who wish to obtain the national ProStart certification must complete a 400 - hour guided internship and pass the exams for both ProStart I & II. Successful participants in the program will have the opportunity to receive college credits, earn industry certifications and credentials, compete in the ProStart Invitational Competitions, and apply for industry scholarships.

Suggested Prerequisites: Culinary Essentials I & II (formerly Foods & Nutrition or Gourmet Foods)

# PROSTART YOUTH APPRENTICESHIP

GRADES: 11-12 LENGTH: 1 YEAR CREDITS: 2.0 CTE EST. FEES: \$175

Prerequisites: ProStart I and/or ProStart II

Concurrent Enrollment: N/A

**Certifications/Trainings:** ServSafe Manager, ProStart National Certificate of Achievement, ServSuccess Certified Restaurant Professional, Restaurant Line Cook Apprenticeship, Certified Line Cook (additional certifications available upon request)

Course Topics: This upper-level culinary program is an opportunity for students to put their culinary & restaurant management knowledge to the test! Students are enrolled in the National Restaurant Association's "RYRA" (Restaurant Youth Registered Apprenticeship) program and can start earning hours towards the "Restaurant Line Cook Apprenticeship" starting at 17 years old. Students learn applicable industry skills through class instruction and can earn paid work hours outside of class time through an approved employer or through the CCIC Café. All student certifications/ trainings are funded through the Colorado Restaurant Foundation! In addition, students will be working alongside the Hospitality Youth Apprenticeship program to cater CCIC events, teaching them communication, leadership, cost analysis, teamwork, responsibility, and professionalism-skills they can apply to any industry they choose for their future.



# INFRASTRUCTURE ENGINEERING







Scan to <u>watch a video</u> about the Infrastructure Engineering Pathway



# Construction I 10th-12th grade Students gain practical experience in the various building trades using industry tools and materials. Construction II 11th-12th grade Students will expand on skills gained in the previous year and begin an introduction to commercial materials and career pathways.

# **CONSTRUCTION I**

GRADES: 10-12 LENGTH: 1 YEAR

CREDITS: 1.0 CTE/ 1.0 MTH A

FST FFFS: \$120

Prerequisites: Algebra I

Concurrent Enrollment: N/A

Certifications: OSHA-10 Construction, Home Builders Institute Pre-Apprenticeship

MthA

Course Description: This is the foundation course to basic residential construction. Students will demonstrate competencies that are nationally recognized by the construction industry. Students will learn and practice structural framing of floors, walls, ceilings, and roofs. This course also includes the use of basic construction tools and machinery, applied math, and an introduction to blueprint reading. This course teaches students industry safety including the use of all machines and tools. In addition, topics will include electrical wiring, masonry, plumbing, carpentry, HVAC, drywall, foundations, footings, stairs, doors, and employability.

# CONSTRUCTION II

GRADES: 11-12 LENGTH: 1 YEAR CREDITS: 1.0 CTE/ 1.0 MTH A EST FEES: \$120

Prerequisites: Algebra I, Construction I

**Concurrent Enrollment: N/A** 

Certifications: Home Builders Institute Pre-Apprenticeship: Carpentry, Electrical, Plumbing

MthA

Course Description: In Construction II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians or supervisors, or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will gain more complex practical experience with carpentry, electrical and plumbing. Working in conjunction with the Associated General Contractors of Denver, students focus on various skills in preparation for entry into trades apprenticeships. Students will be introduced to all facets of residential and commercial wiring, installation of fixtures, plumbing and exterior and interior finish work. Carpentry in Construction II will include a more comprehensive understanding of framing, drywall, exterior siding, roofing, insulation, windows, doors, trim and cabinet installation. Students are expected to work closely with people, do physical work and solve problems independently.





Data Science I:

**Foundations** 

10th-12th grade

Analyze & visualize data

Data Science II:

**Machine Learning** 

10th-12th grade

Machine learning



# PATHWAY 5





Scan to watch a video about the IT Pathway



# \*Computer Programming I

(or AP Computer Science Principles at home high school)

10th-12th grade

The beginner's course in computer programming. \*SHHS and END students only

# Virtual Reality I: Foundations of Unity

10th-12th grade 2D/3D Design in Unity

# Virtual Reality II: Building VR Experiences with Unity

10th-12th grade **VR** Experiences

### AP Computer Science A

Required for Intro to Data Structures & Algorithms \*\*offered at home high schools

### Introduction to Data Structures & Algorithms

11th-12th grade Solve problems efficiently.

### Cybersecurity I: Computer Systems

10th-12th grade Learn the ins and outs of computer hardware, operating systems, and software.

## Cybersecurity II: Networks & Security

10th-12th grade Computer networks and security applied to business operations.

### Cybersecurity III: Ethical Hacking

11th-12th grade Exploit system vulnerabilities to better defend and protect them.

### **CTE Capstone IT**

12th grade Interdisciplinary Collaboration - Genius Hour

# COMPUTER PROGRAMMING I (for Smoky Hill & Endeavor students)

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: 1.0 CTE

EST. FEES: \$30

Prerequisites: Algebra I (B or better)

**Concurrent Enrollment: N/A** 

Certifications: N/A

Course Description: This course is intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multi-step procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

\*CCHS, CTHS, EHS, GHS, OHS students interested in IT pathway must take Computer Programming I, AP Computer Science Principles or AP Computer Science A at home high school.







# IT PATHWAY 🕟

# **INTRODUCTION TO DATA STRUCTURES & ALGORITHMS**

GRADES: 11-12 LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 MTH C | EST. FEES: \$30

Prerequisites: AP Computer Science A or equivalent

Concurrent Enrollment: N/A

Certifications: N/A

**Course Description:** This course will cover the different ways data can be stored to more efficiently solve computing problems. Students will be exposed to a variety of techniques for developing and analyzing algorithms. Topics in this course may include, but are not limited to arrays, lists, maps, sets, graphs, trees, recursion, asymptotic notation, and proof techniques.



GRADES: 10-12 LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 MTH B | EST. FEES: \$30

Prerequisites: One of the following: Computer Programming I, AP Computer Science Principles or equivalent

Concurrent Enrollment: N/A

**Certifications:** Unity Certified User: Programmer

**Course Description:** Students will learn how Virtual Reality (VR) applications and hardware are used in a variety of professional industries. You will also learn about the fundamentals of Unity, a game engine needed to build VR experiences. We will specifically focus on learning about the Unity editor interface, the physics simulation engine, and scripting with C# in

order to prepare for the Unity Certified User: Programmer certification exam.

VIRTUAL REALITY II: BUILDING VR EXPERIENCES WITH UNITY

GRADES: 10-12 LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 MTH B | EST. FEES: \$0

Prerequisites: Virtual Reality I: Foundations of Unity

Concurrent Enrollment: N/A

Certifications: Unity Certified User: VR Developer

**Course Description:** Students learn to develop VR applications in Unity. More specifically, you will learn about the unique UX concerns that VR development introduces, as well as how to develop VR apps for the Oculus Rift S. We will focus on the VR-specific components that Unity supports, such as tracking, teleporting, interacting with virtual objects, positional audio, and much more. This semester is focused on preparing students to take the Unity Certified User: VR Developer certification exam.













# IT PATHWAY 5

CYBERSECURITY I: COMPUTER SYSTEMS

GRADES: 10-12 LENGTH: 1 SEMESTER | CREDITS: 1.0 CTE | EST. FEES: \$30

Prerequisites: One of the following: Computer Programming I, AP Computer Science Principles or equivalent

Concurrent Enrollment: N/A

Certifications: CompTIA A+, TestOut PC Pro

Course Description: This course will give students hands-on experience with computer hardware, operating systems, and software. Students will also learn the essentials of computer networks and how the internet works. Along the way, students will be exposed to a variety of security implications that impact our computer systems and society today. At the end of this course, students will be prepared to take the TestOut PC Pro and CompTIA A+ exam, credentials that demonstrate their ability to be able to diagnose and troubleshoot a variety of IT-related issues. Cybersecurity I is a course intended to teach students the basic concepts of cybersecurity. The course places an emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management. The fundamental skills in this course cover both in house and external threats to network security and design, how to enforce network level security policies, and how to safeguard an organization's information. Upon completion, proficient students will be able to demonstrate an understanding of cybersecurity concepts, identify fundamental principles of networking systems, understand network infrastructure and network security, and be able to demonstrate how to implement various aspects of security within a networking system.

# CYBERSECURITY II: NETWORKS & SECURITY

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 MTH D EST. FEES: \$0

**Prerequisites:** Cybersecurity I: Computer Systems

Concurrent Enrollment: N/A

Certifications: CompTIA Network+, TestOut Network Pro, CompTIA Security+, TestOut Security Pro

Course Description: In this course, students will dive deeper into networking and security concepts. Students will learn to design, implement, and troubleshoot issues for both wired and wireless networks. Students will also learn more about cryptography as well as security in business operations including risk management and disaster recovery. Students will be prepared to take the industry-recognized TestOut Network Pro, CompTIA Network+, and CompTIA Security+ exams. Cybersecurity II challenges students to develop advanced skills in concepts and terminology of cybersecurity. This course builds on previous concepts introduced in Cybersecurity I while expanding the content to include malware threats, cryptography, wireless technologies and organizational security. Upon completion of this course, proficient students will be able to demonstrate and understanding of cybersecurity ethical decisions, malware threats, how to detect vulnerabilities, principles of cryptology, security techniques, contingency plan techniques, security analysis, risk management techniques, and advanced methods of cybersecurity.

# CYBERSECURITY III: ETHICAL HACKING

GRADES: 11-12 LENGTH: 1 SEMESTER CREDITS: 1.0 CTE EST. FEES: \$30

Prerequisites: Cybersecurity I: Computer Systems and Cybersecurity II: Networks & Security

**Concurrent Enrollment: N/A** 

Certifications: N/A

**Course Description:** In this course, students will learn to evaluate the security posture of target systems by exploiting their weaknesses and vulnerabilities in an ethical, lawful, and legitimate manner. Students will utilize their findings to make recommendations for strengthening the security of these target systems. This course will be based on the industry-recognized Certified Ethical Hacker certification and will prepare students for entry-level jobs in penetration testing and cybersecurity.

MthD







# IT PATHWAY 5

DATA SCIENCE 1: FOUNDATIONS

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 MTH C EST. FEES: \$30

Prerequisites: One of the following: Computer Programming I, AP Computer Science Principles or equivalent

Concurrent Enrollment: N/A

**Certifications:** N/A

**Course Description:** Students will learn the basic process of data science: collecting, manipulating, and visualizing data to drive decision making. Students will be exposed to each stage of the process from determining what constitutes good data to collect, techniques for cleaning and organizing it, tools that can be used for visualizing the data, the necessary statistical underpinnings for data analysis, and developing intellectual capital and communication skills for contextualizing and presenting key findings.

Suggested prerequisite: Statistics or AP Statistics (can be taken at same time)

DATA SCIENCE II: MACHINE LEARNING

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 MTH B EST. FEES: \$0

Prerequisites: Data Science I: Foundations

**Concurrent Enrollment: N/A** 

**Certifications:** N/A

Course Description: This course provides a broad introduction to machine learning, data mining, and statistical pattern recognition. Topics include: (i) Supervised learning. (ii) Unsupervised learning. (iii) Reinforcement learning. The course will also draw from numerous case studies and applications, so that you'll also learn how to apply learning algorithms to building smart robots (perception, control), text understanding (web search, anti-spam), computer vision, medical informatics, audio, database mining, and other areas.

CTE CAPSTONE IT

GRADES: 11-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE / .5 ENG C EST. FEES: \$100

Prerequisites: Any student that has completed at least Cybersecurity III, Data Science II, Virtual Reality II,

or Data Structures & Algorithms is eligible to apply. A teacher recommendation is required.

EngC

**Concurrent Enrollment: N/A** 

Certifications: N/A

Course Description: Students who have completed second level IT courses, will team with other students from various CCIC pathways to solve real world problems faced by our business & industry partners. The teams will initiate, plan, execute, monitor and control, and close the project by presenting the sponsor with the deliverable and/or solution. The IT student will focus on the computing aspect of a team's solution, which may include, but is not limited to, planning and configuring necessary hardware, programming and administrating software, and designing and managing networks and IoT devices. All team members must be willing to improve their skills in collaboration, leadership, time management, teamwork, commitment, and perseverance. In addition, team members must be willing to expand their technical knowledge and skillset outside of that which was taught in the pathway courses leading up to CTE Capstone. This course can be repeated for credit.







# TEAM PATHWAY - PRODUCT DESIGN & FABRICATION







Scan to <u>watch a video</u> about the STEAM Pathway



### Product Design I

10th-12th grade Bring ideas from initial concept to tangible reality using design thinking and processes.

### Product Design II

10th-12th grade Solve design problems by using the latest applications for direct digital fabrication.

# **Product Design III**

10th-12th grade Advanced work in any Drafting and Design Program of study.

**CTE Capstone Product Design** 11th-12th grade

# PRODUCT DESIGN I

GRADES: 10-12

LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 PHY SCI

Prerequisites: N/A; Computer Aided Design (CAD) or similar Design course suggested

Dual Enrollment: Metro State University of Denver (IND 1000), \$50 additional fee per MSU credit, 1 credit



Certifications: (if not taken at home high school) - Society of Manufacturing Engineers ADDITIVE MANUFACTURING FUNDAMENTALS, SOLIDWORKS Certified Associate - CSWA Mechanical Design

Course Description: Students that are interested in careers involving design, engineering and innovation. Students will utilize design thinking and the design process to research, conceptualize, design, prototype, and evaluate physical products. Students will develop their digital fabrication skills utilizing production machines. Students will design and create both as an individual and in collaborative groups, including working on/with projects directly from industry. This course is the professional practice of creating products that enhance the function, usability, value, and appearance of products with the goal of benefiting the user, manufacturer, community, and the environment. Also known as product design, industrial design education prepares students to design systems and tangible artifacts including, consumer and recreational products, medical and computer equipment, and transportation and environments. Both generalist and specialist, industrial designers tend to be part artist, part entrepreneur and engineer. This course is designed for students interested in careers in Industrial Design, Packaging Design, or Design Arts industry sector. Students will be introduced to industry standard tools, skills, and materials that they can manipulate as the primary means of manufacturing and package design. Students will explore basic applications of various tools to create projects in both digital and 3D format.

# PRODUCT DESIGN II

**GRADES: 10-12** 

LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 PHY SCI | EST. FEES: \$100

Prerequisites: Product Design I

Dual Enrollment: Metro State University of Denver (IND 3660), \$50 additional fee per MSU credit, 3 credits



Certifications: (if not taken at home high school) - SOLIDWORKS Certified Associate - CSWA-AM Additive Manufacturing, SOLIDWORKS Certified Expert - CSWE Mechanical Design, SOLIDWORKS Certified Professional - CSWP Mechanical Design, Stratasys **Additive Manufacturing Certification** 

Course Description: Students that are interested in careers involving design, engineering, and innovation. Students will explore and use the latest applications of direct digital fabrication. Emphasis will be placed on practical experience in utilizing departmental equipment to produce digital 3D files and output them to appropriate direct digital fabrication equipment. Students will solve design problems by applying knowledge of material properties, ergonomics, form vs. function, additive manufacturing (3D printing), principles of design, and elements of art. Students will design and create both as an individual and in collaborative groups, including working on/with projects directly from industry. This course prepares students to design systems and tangible artifacts and deepen understanding of manufacturing and marketing processes. Students will advance development of industry-standard tools, skills, and material usage for product manufacturing and design in Industrial Design, Packaging Design, or Design Arts industry sector.







# STEAM PATHWAY - PRODUCT DESIGN & FABRICATION





GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 PHY SCI EST. FEES: \$100

Prerequisites: Product Design II

Concurrent Enrollment: N/A

**Certifications:** (if not taken at home high school) - SOLIDWORKS Certified Associate - CSWA-AM Additive Manufacturing, SOLIDWORKS Certified Expert - CSWE Mechanical Design, SOLIDWORKS Certified Professional - CSWP Mechanical Design,

**Stratasys Additive Manufacturing Certification** 

**Course Description:** This course allows for advanced work in any Drafting and Design Program of Study. This advanced work can be individualized to the specific program of study to allow for specialized study for the student. It may include project-based learning or preparation for the end of program industry certification. Specific content and course design will be determined by the instructor in collaboration with the individual student.

# CTE CAPSTONE STEAM

GRADES: 11-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 ENG C EST. FEES: \$100

Prerequisites: Any student that has completed at least Product Design III is eligible to take the CTE

Capstone Product Design course. A teacher recommendation is required.

**Concurrent Enrollment:** N/A

Certifications: SOLIDWORKS CSWA+, Stratasys Additive Manufacturing Certification

Course Description: Students who have completed Product Design III, will team with other students from various CCIC pathways to solve real world problems faced by our business & industry partners. The teams will initiate, plan, execute, monitor and control, and close the project by presenting the sponsor with the deliverable and/or solution. The STEAM students will bring their design and fabrication skills to this process and help produce the prototype or functional product. All students enrolled in this course must be willing to improve their skills in collaboration, leadership, time management, teamwork, commitment, and perseverance. This course can be repeated for credit.

# STEAM PATHWAY – ROBOTICS

# **ADVANCED ROBOTICS & AUTOMATED SYSTEMS**

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: 1.0 CTE EST. FEES: \$100

Prerequisites: Introductory Robotics course or equivalent (such as FIRST Robotics); GHS students should take

Advanced Robotics at home high school.

**Concurrent Enrollment: N/A** 

Certifications: N/A

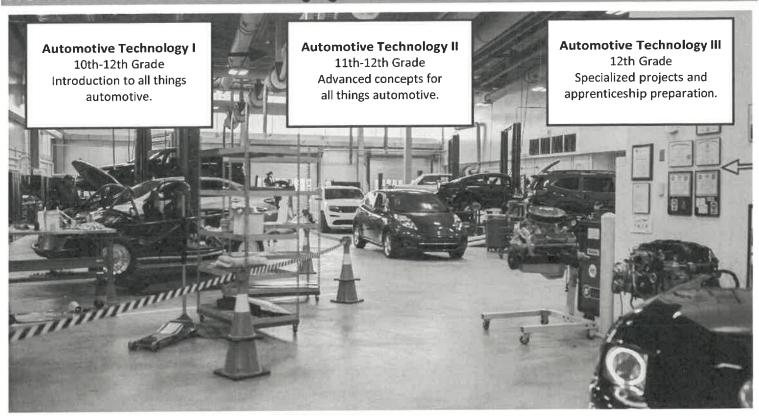
**Course Description:** Introduces industrial robotics as well as a survey of the technologies and equipment used in manufacturing automation and process control. Includes axis configurations, work envelopes, programming, troubleshooting, and maintenance. Incorporates a survey of automation topics including history, computer and hardwired controls, sensors and transducers, motors and actuators, fluid power, and PLCs.







# **AUTOMOTIVE TECHNOLOGY**



# **AUTOMOTIVE TECHNOLOGY I**

GRADES: 10-12 LENGTH: 1 YEAR | CREDITS: 1.0 CTE/ 1.0 PHY SCI

EST FEES: \$95

Prerequisites: N/A

Concurrent Enrollment: Arapahoe Community College (ASE 1001, 1003, 1020, 2050)





**Certifications:** Snap-on Certifications (Multimeter, Torque, Precision Measurement, Scanner and Diagnostics), ASE Student Automobile Certifications (Brake Systems, Suspension & Steering Systems, Electrical/Electronic Systems, and Engine Performance)

Course Description: Automotive Technology I explores automotive industry standards and terminology, career opportunities and classifications, shop operations and safety, tool identification and usage, diagnostic equipment identification and usage, automotive systems, tires and wheels, hydraulic braking systems, cooling systems, lubrication systems, and preventative maintenance. Also included is basic operation of automotive braking systems, operation, diagnosis and basic repair of disc, drum, and basic hydraulic braking systems. The basics of electrical systems, electronic systems, batteries, starting systems, charging systems, lighting systems, electrical instruments and accessories, and ignition systems will also be studied. This course focuses on the diagnosis and service of suspensions and steering systems and their components. Students who successfully complete all Automotive Technology courses will have the knowledge needed to pass the ASE certification exam for MLR. Students who pass the exam and meet the work-based requirement will be eligible and encouraged to enter the workforce as an ASE-Certified MLR Technician.







# **AUTOMOTIVE TECHNOLOGY**

# **AUTOMOTIVE TECHNOLOGY II**

GRADES: 11-12 LENGTH: 1 YEAR | CREDITS: 1.0 CTE/ 1.0 PHY SCI

EST. FEES: \$95

Prerequisites: Automotive Technology I; secondary application and skills assessment

Concurrent Enrollment: Arapahoe Community College (ASE 1010, 1040, 1022, 2064)



**Certifications:** Snap-on Certifications (Wheel Service & Alignment, Advanced Scanner Diagnostics, Pro-Cut on-car Rotor Machining, Battery Starting and Charging), ASE Student Automobile Certifications (Brake Systems, Suspension & Steering Systems, Electrical/Electronic Systems, and Engine performance)

Course Description: Automotive Technology II is the second course in the Automotive Technology program of study and covers important skills and knowledge on becoming a professional service technician. The Automotive Technology II course prepares students for entry into Automotive Technology III. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Students who successfully complete all Automotive Technology courses will have the knowledge needed to pass the ASE certification exam for MLR. Students who pass the exam and meet the work-based requirement will be eligible and encouraged to enter the workforce as an ASE-Certified MLR Technician.

# **AUTOMOTIVE TECHNOLOGY III**

GRADES: 12 LENGTH: 1 YEAR CREDITS: 2.0 CTE

EST. FEES: \$95

Prerequisites: Automotive Technology I and II; secondary application and skills assessment required

Concurrent Enrollment: N/A

**Certifications:** Continuation of Snap-on Certifications (Wheel Service & Alignment, Advanced Scanner Diagnostics, Pro-Cut on-car Rotor Machining, Battery Starting and Charging), ASE Student Automobile Certifications (Brake Systems, Suspension & Steering Systems, Electrical/Electronic Systems, and Engine performance)

Course Description: Students learn advanced diagnostic techniques including high performance concepts. Do you love automotive technology, but want to know more about how to make cars go fast? Do you have a mechanical mind, and don't just love working with cars, but want to maximize horsepower to achieve top speed at the race track? Does this sound like you? In Automotive Technology III you will be part of a team that: Builds a high-performance engine and runs it on a specialized test stand, is exposed to all aspects of engine machining, learns how to tune engines for maximum output and drivability using various data acquisition tools, learns to improve performance of engines and maintain peak performance of racing engines, and learns aspects of high-performance chassis, brake and suspension modifications including those on our in-house NASCARs. In addition, students will have opportunities to compete in our SkillsUSA program. Students study and service suspension and steering systems and brake systems. Students who successfully complete all Automotive Technology courses will have the knowledge needed to pass the ASE certification exam for MLR. Students who pass the exam and meet the work-based requirement will be eligible and encouraged to enter the workforce as an ASE-Certified MLR Technician.





# TWO YEAR ACCELERATED AVIATION MAINTENANCE PATHWAY

### YEAR 1

**Accelerated** General Aircraft Maintenance | & ||

(Half Day, Every Day, 1 Yr) 11th-12th grade This class is the foundation of the Aviation Maintenance program.

### **SUMMER**

### Airframe I

(7.5 Hrs, Every Day, 20 days) 11th-12th grade Introduction to Airframe Studies.

### YEAR 2

### Airframe II & III

(Half Day, Every Day, 1 Yr) 11th-12th grade Continuation of aircraft structures and systems.

### SUMMER

### Airframe IV

(7.5 Hrs, Every Day, 20 days) 12th grade Completion of the Airframe education and exam preparation.

# ACCELERATED GENERAL AIRCRAFT MAINTENANCE I & II

GRADES: 11-12 | LENGTH: 1 Year (meets daily) | CREDITS: 2.0 CTE/ 1.0 MTH A/ 1.0 PHY SCI | EST. FEES: \$150

Prerequisites: Algebra I (Suggested)

Concurrent Enrollment: N/A

Certifications: Snap-on Multimeter, Snap-on Torque, Snap-on Precision Measurement

Course Description: This course covers basic subjects, such as mathematics for aviation, basic physics for aviation, and basic electricity. In addition, this course will provide a foundation for further studies in the aviation maintenance pathway including the

FAA coursework for General Aviation Mechanics.

# AIRFRAME I (SUMMER)

GRADES: 11-12 | LENGTH: 7.5 hrs/day, 20 days | CREDITS: 1.0 CTE

**EST. FEES: \$150** 

Prerequisites: General Aircraft Maintenance I & II

Concurrent Enrollment: N/A

Certification: N/A

Course Description: This course builds on General Aircraft Maintenance I & II. This course will cover wood structures, aircraft

coverings, non-metallic structures, and aircraft finishes.

# AIRFRAME II & III

GRADE: 11-12 | LENGTH: 1 Year (meets daily) | CREDITS: 3.0 CTE/ 1.0 MTH B

**EST.FEES: \$ 150** 

Prerequisites: General Aircraft Maintenance | & II, Airframe | is recommended

Concurrent Enrollment: N/A

Certifications: N/A

Course Description: In Airframe II & III, students will continue their study of Airframe Maintenance. Topics include aircraft sheet metal, electrical systems, hydraulic and pneumatic power systems, fuel systems, water and waste systems, and landing systems.

# AIRFRAME IV (SUMMER)

LENGTH: 7.5 hrs/day, 20 days | CREDITS: 0.5 CTE/ 0.5 PHY SCI

**EST.FEES:** \$ 150

Prerequisites: General Aircraft Maintenance | & II, Airframe I, II, & III

Concurrent Enrollment: N/A

Certifications: After completing this final course in the pathway, Airframe IV, students may be eligible to take 2 FAA written tests: General and Airframe. Once the written tests are passed, students may be eligible to take an oral and practical test with a Designated Mechanic Examiner (DME). Contact instructor for further details.

Course Description: This course is the conclusion of Airframe Maintenance. Topics for the class include instrument systems, communication and navigation systems, and inspection processes.







# THREE YEAR AVIATION MAINTENANCE PATHWAY 📈

YEAR 1

General Aircraft Maintenance I

(Half-Day, Every Other Day, 1 Yr) 10th-12th grade

This class is the foundation of the Aviation Maintenance program.

YEAR 2

General Aircraft Maintenance II

(Half-Day, Every Other Day, 1 Yr) 11th-12th grade

This course is a continuation of General Aircraft Maintenance I. **SUMMER** 

Airframe I

(7.5 Hrs, Every Day, 20 days) 11th-12th grade

Introduction to Airframe Studies.

YEAR 3

Airframe II & III

(Half Day, Every Day, 1 Yr) 11th-12th grade

Continuation of aircraft structures and systems. SUMMER

Airframe IV

(7.5 Hrs, Every Day, 20 days)

12th grade

Completion of Airframe education and exam preparation.

GENERAL AIRCRAFT MAINTENANCE I

GRADES: 10-12 LENGTH: 1 Year

CREDITS: 1.0 CTE/ 1.0 MTH B

**EST. FEES: \$75** 

Prerequisites: Algebra | (Suggested)

Concurrent Enrollment: N/A

Certifications: Snap-on Multimeter

Course Description: This course is an introduction to foundational subjects, such as mathematics for aviation, physics for aviation, and basic electricity. In addition, this course will provide for further studies in the aviation maintenance pathway including the FAA

coursework for General Aviation Mechanics.

GENERAL AIRCRAFT MAINTENANCE II

GRADES: 11-12 | LENGTH: 1 Year

CREDITS: 1.0 CTE/ 1.0 PHY SCI

EST. FEES: \$75

Prerequisites: General Aircraft Maintenance I

Concurrent Enrollment: N/A

Certifications: Snap-on Torque, Snap-on Precision Measurement

Course Description: This course builds on the subjects addressed in General Aircraft Maintenance I and prepares the student to begin Airframe. The class prepares students for the General Aircraft Maintenance portion of the FAA Part 147 Aviation Mechanics

exam.

**AIRFRAME I (SUMMER)** 

Prerequisites: General Aircraft Maintenance | & ||

GRADES: 11-12 LENGTH: 7.5 hrs/day, 20 days

CREDITS: 1.0 CTE

**Concurrent Enrollment: N/A** 

Certification: N/A

Course Description: This course builds on General Aircraft Maintenance I & II. This course will cover wood structures, aircraft

coverings, non-metallic structures, and aircraft finishes.

AIRFRAME II & III

**GRADE: 11-12** LENGTH: 1 Year (meets daily) CREDITS: 3.0 CTE/ 1.0 MTH B

**EST.FEES: \$ 150** 

Prerequisites: General Aircraft Maintenance I & II; Airframe I is recommended

Concurrent Enrollment: N/A

Certifications: N/A

Course Description: In Airframe II & III, students will continue or start their study of Airframe Maintenance. Topics include aircraft sheet metal, electrical systems, hydraulic and pneumatic power systems, fuel systems, water and waste systems, and landing systems.

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# THREE YEAR AVIATION MAINTENANCE PATHWAY - continued

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# **AIRFRAME IV (SUMMER)**

**GRADES: 12** 

LENGTH: 7.5 hrs/day, 20 days

CREDITS: 0.5 CTE/ 0.5 PHY SCI

**EST. FEES: \$150** 

Prerequisites: General Aircraft Maintenance I & II, Airframe I, II, & III

**Concurrent Enrollment: N/A** 



**Certifications:** After completing this final course in the pathway, Airframe IV, students may be eligible to take 2 FAA written tests: General and Airframe. Once the written tests are passed, students may be eligible to take an oral and practical test with a Designated Mechanic Examiner (DME). Contact instructor for further details.

**Course Description:** This course is the conclusion of Airframe Maintenance required by the FAA prior to testing. Topics for the class include instrument systems, communication and navigation systems, and inspection processes.























# **AVIATION FLIGHT PATHWAY**

PRIVATE PILOT GROUND SCHOOL (formerly Aviation Fundamentals)

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 MTH B EST. FEES: \$105

Prerequisites: N/A

Dual Enrollment: Metro State University of Denver (AES 1100), \$50 additional fee per MSU credit,

4 credits

Certification: FAA Private Pilot Knowledge Examination preparation

**Course Description:** This course presents the fundamentals of aviation for the beginning student which includes a study of the airplane and its components, aerodynamics, basic aircraft systems, the airport environment, air-traffic control procedures, Federal Aviation Regulations, the basic elements of air navigation including radio navigation, and a review of aviation weather. It prepares the student for the Federal Aviation Administration (FAA) Private Pilot Knowledge examination.

**DRONE PILOT** 

GRADES: 10-12 LENGTH: 1 SEMESTER CREDITS: .5 CTE/.5 MTH B EST. FEES: \$105

Prerequisites: N/A

Concurrent Enrollment: N/A

**Certifications:** FAA Remote Pilot Certification (Part 107)

Course Description: Concepts in this course include drone components, drone operation, drone pilot skills, drone pilot careers, airspace, weather, airport operations, authorizations and waivers and the regulations governing drone operations. At the end of the course students will be prepared to take the FAA Remote Pilot Exam (Part 107). This course would be an applied applications course and could include instruction in aerial photography for commercial purposes, recording instrumentation, topics in inspection for industrial purposes, and data analytics.



