

Columbine High School

Course Registration Guide



Academic Year
2024 – 2025

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GENERAL COURSE REGISTRATION INFORMATION

This guide has been compiled for you and your parents to use in planning your years at Columbine High School. It is important to review your educational progress toward your career and post-secondary goals with your parents and your counselor, utilizing your Individual Career and Academic Plan (ICAP). Your counselor and parents can assist you in the development of an educational plan that will best meet your individual needs. However, you will make the final decision. Take the time to plan your high school years carefully. See your counselor if questions arise about college entrance requirements and career information.

Know and understand the REQUIREMENTS and PREREQUISITES for courses you wish to take, including whether teacher approval is required. Before selecting a course, check the course description to be sure it fits your needs, interest, abilities, and career goals.

Carefully read the grade level and prerequisites of each course to ensure accurate and appropriate placement. The courses listed in this guide will be offered only when sufficient numbers of students request them during our course selection process. Therefore, it is important to select alternative courses to accommodate change.

ENROLLMENT REQUIREMENTS

Ninth grade students are required to be enrolled in seven (7) classes each semester, one of which is a mandatory Study Hall (unless a student is enrolled in band, orchestra, or drama, then they can opt to NOT have a study hall). Tenth grade students are also required to be enrolled in seven (7) classes each semester. Eleventh-grade students may have 6 or 7 classes each semester, so long as they are not credit deficient. Twelfth-grade students are required to be enrolled in six (6) classes first semester and five (5) classes second semester. Students will have an opportunity to add additional classes above the required amount beginning the second day of each semester on a space available basis. Grade 10-12 students may have a required study hall, depending on current passing grades and on time credit completion toward graduation.

ALL ATHLETES MUST BE ENROLLED IN A MINIMUM OF 2.5 CREDITS (at least 5 classes) EACH SEMESTER IN ORDER TO REMAIN ELIGIBLE TO PARTICIPATE IN CHSSA SPONSORED ATHLETICS.

SCHEDULE CHANGES

Much time is devoted to developing courses that fit a student's needs and interests. Teachers, counselors, parents, and the student are involved in this time-consuming process.

Students register for courses, and the computer will utilize all class periods, all teachers, and all available classrooms while placing students in classes. Therefore, CHS cannot guarantee or arrange for specific 'off' hours.

Student schedules are created based on student requests and course availability during the registration process in January. In order to best accommodate all students' class and credit needs, while balancing other aspects of our master schedule, optional schedule change requests will not be available. Mistakes such as being placed in the incorrect class, duplicate courses, or a student being assigned the wrong level of a class will be addressed and processed with our counselors on a case by case basis. Examples of changes that will no longer be made include:

- Requests for a specific teacher's class
- Requesting a specific off hour or lunch
- Matching schedules to a sibling's
- Changing electives
- Accommodating classes to fit transportation
- Requesting classes/off hours to accommodate any outside activities such as sports and work

Students are expected to continue in a year-long course once they have signed up for that course. Approval by their counselor, a parent, and the teacher must be received in order to drop a year-long course.

Questions about registration should be directed to the appropriate school counselor.

Columbinehs.jeffcopublicschools.org/counseling/counselors

PROGRAM DEFINITIONS

Honors Classes: See course description for Honor class requirements and prerequisites. The Honors Agreement must be signed and returned with registration materials. Jefferson County Schools allows 9th and 10th grade Honors courses in Mathematics, English, Science, Social Studies and World Languages to be weighted. ***In order to receive a weighted grade, students must earn a C or above.***

The Advanced Placement (AP) Program: is a national academic program sponsored by the College Board. Classes are the equivalent of introductory college courses that provide opportunities for highly motivated students to complete certain college requirements while still in high school. Most of the AP courses are year-long and culminate in a national exam in May. The Advanced Placement Agreement must be signed and returned with registration materials. Passing grades in AP courses (C or above) are weighted in students' GPA. ***Students are expected to take an exam given by the College Board each year in May. Students who pass this examination may earn college credit. Students must remain enrolled for the entire school year and take the AP exam to receive AP credit and the corresponding weighted grade.*** Students who do not take the AP Exam are not eligible for the weighted grade.

Credit: Recognition that a student has successfully passed a class (grade of "D" or above), fulfilling a requirement towards high school graduation. *Please note that many selective colleges and universities do not accept 'D's' as passing credit on a high school transcript.* Typically, the amount of credit awarded for successfully completing one semester class is 0.5 credit; teacher assistant positions, Study Hall, and Seminar classes award 0.25 credit, and most office assistant positions award 0.5 credit.

Cumulative Grade Point Average (GPA): The average obtained by dividing the total number of grade points earned in high school courses by the total number of courses included on the transcript. Weighted grades for AP and Honors courses, and some Post-Secondary Educational Options courses, are factored into this calculation. It is possible to obtain a GPA above 4.0. Valedictorian and Salutatorian recognition will be based strictly on GPA based on this weighted scale. CHS operates on a 4.0 grade point scale as follows:

Grade Points: A = 4 grade points
B = 3 grade points
C = 2 grade points
D = 1 grade point
F = 0 grade points

Weighted Grade Points: A = 5 grade points
B = 4 grade points
C = 3 grade points
D = 1 grade point
F = 0 grade points

Rank in Class: A student's relative standing in his/her class, determined by comparing the cumulative grade point averages of all students in the class.

INDIVIDUAL CAREER AND ACADEMIC PLAN (ICAP)

All students must log onto their Jeffco ICAP located on the Naviance website each year and update their high school course plan builder and career plan. Counselors will be available to help students through this process. You may access your plan at any time through the Naviance link on the counselors' page on Columbine's website.

In order to advise students in ICAP, Columbine will use Advisement meetings occasionally throughout the school year. These meetings are pre-scheduled and students will be notified well in advance. During these Advisement meetings students will work on their 4 year plan for graduation, course registration and post-secondary options.

GRADUATION REQUIREMENTS

Students are required to complete the 23 credit hours of study shown below.

1 SUBJECT	JEFFCO CREDITS	HEAR CREDITS ^a
English Language Arts	4	4
Math	3 ^b	4
Science	3 ^c	3
Social Studies	3.5 ^d	3
Physical Education	0.5	None
Fine/Practical Arts	0.5	None
World/Foreign Language	N/A	1
Additional Coursework	8.5	2
TOTAL	23	N/A
^a Higher Education Admission Recommendations for Colorado public four-year colleges/universities; private colleges/universities set their own admission standards ^b A minimum of algebra 1, geometry and one additional course at or above geometry ^c Three credits must be lab-based and meet both process and content standards are required ^d Geography, U.S. history, world history, U.S. government, economics		

DEMONSTRATIONS OF KNOWLEDGE GRADUATION REQUIREMENTS

Students are also required to demonstrate their knowledge in English and math to show they are ready to pursue a career after high school. Students may choose from a wide menu of tests, college-level courses, and new approaches like industry certifications and Capstone to fulfill the demonstration requirement.

2 DEMONSTRATION OPTIONS ^a	ENGLISH	MATH
Accuplacer Next (Español)	241/Reading or 236 Writing	255/AR or 230/QAS ^b
ACT (Español)	18	19
ACT Work Keys (Español)	Bronze	Bronze
Advanced Placement ^c (Español)	2	2
ASVAB (Español)	31	31
Concurrent Enrollment (Español)	Passing Grade	Passing Grade
International Baccalaureate ^c (Español)	4	4
SAT ^d (Español)	470	500
District Capstone (Español)	Individualized	Individualized
Industry Certificate (Español)	Individualized	Individualized
Performance Based Assessment (in development)	State Rubric	State Rubric
^a Check with your school to learn which of the above options are offered ^b Arithmetic (AR); Quantitative Reasoning, Algebra, and Statistics (QAS) ^c Other demonstrations may be required if test scores come after deadline ^d All students are required to take the SAT in their Junior year		



AP Capstone at Columbine High School

We are excited and proud to announce that Columbine High School has been chosen, as one of a select group nationally, to offer the **Advanced Placement (AP) Capstone Diploma Program**. Columbine was the first AP Capstone Diploma School in Jefferson County and one of fewer than 50 schools to offer the program statewide.

This program is built on the foundation of our existing AP courses while adding two core AP courses -- **AP Seminar and AP Research** -- and is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses. Through earning an AP Capstone Diploma, students will be able to earn college course credit, college admission distinction, and valuable college and workforce readiness skills. AP Capstone is an innovative program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. The major universities in Colorado, and hundreds of prestigious universities, like Harvard and Yale, have confirmed their support for AP Capstone by signing a statement of support endorsing its rigorous interdisciplinary approach, and/or by granting credit for a qualifying score in AP Seminar, AP Research, or both. Students at Columbine that complete the AP Capstone program could have their freshman year of college completed before they graduate from high school!



AP SEMINAR (Year 1)
Team Project & Presentation
Individual Research-Based Essay & Presentation
End-of-Course Exam
AP RESEARCH (Year 2)
Academic Paper
Presentation & Oral Defense
4 AP COURSES & EXAMS (Taken at any point throughout high school)



What is the college savings?

According to The College Board, the average cost of college for a single year is \$27,560 for public colleges (in state tuition, fees, room/board, misc. expenses). Students that complete the AP capstone program are estimated to save their families \$8,500 and it could be much more!

And, students who take AP courses and exams are much more likely to complete a college degree on time. Graduating in four years represents a further and significant savings on the cost of college.

Where can I get more information?

Please contact Jayne Vahle, Assistant Principal, at jayne.vahle@jeffco.k12.co.us or 303-982-8751 for further questions.

COLLEGE CREDIT

While many students earn college credit through AP Exams, the Concurrent Enrollment (CE) program provides high school students the opportunity to earn tuition free college credit through Arapahoe Community College for high school courses they are currently taking at Columbine High School. In order to be eligible, the student must be scheduled into a CE course at Columbine High School. The student must complete all admission and registration requirements of Arapahoe Community College which include the online college application, apply and authorize the College Opportunity Fund (COF), and CE Agreement form. Some courses may require a student to meet prerequisites and test scores. Many of these courses are guaranteed to transfer to other Colorado higher education institutions and may transfer to out of state universities/colleges. For additional information, please refer to [Postsecondary Options and Concurrent Enrollment](#) and [Jeffco Public Schools Concurrent Enrollment and Dual Enrollment](#) Website. Students may check with their counselor for more information.

In accordance with Colorado Statute 23-28-205 (5) (c) (I) (B) student name and state ID number will be shared with the institution of higher education.

Columbine Course	Arapahoe Community College Course	Credits	Fees
Adobe Photoshop 1	MGD-1011, Adobe Photoshop I	3	none
Adobe Illustrator	MGD-1012, Adobe Illustrator I	3	none
Photography Intermediate	PHO 1001, Professional Photography1	3	none
Digital Photography Intermediate	PHO 1021, Image Capture 1	3	none
Digital Photography Advanced	PHO 1061, Digital Capture Processing		
Adobe Photoshop 1	MGD-1011, Adobe Photoshop I	3	none
French IV, S1	FRE 111	5	none
French IV, S2	FRE 112	5	none
Spanish IV, S1	SPA 111	5	none
Spanish IV, S2	SPA 112	5	none

University of Colorado at Denver – CU Succeeds

Generally speaking, institutions that accept University of Colorado credits will accept those earned in CU Succeeds courses. Students who know which colleges or universities they will apply to attend are encouraged to obtain transfer information prior to enrolling in CU Succeed courses.

In accordance with Colorado State Law, this class is being offered for University of Colorado at Denver credit. The following courses receive 3 college credits through Colorado University Denver. Transfer of this credit to other four year universities is up to the specific institution for the type of credit that will transfer.

Columbine Course	Univ. of Colo. Denver	Credits	CU Fees
AP Statistics	Math 2830	3	\$77 per credit
Algebra III	Math 1110	4	\$77 per credit

Many AP test scores are accepted as college credit. For up to date and accurate info, check your AP class and college choice at this website:

<https://apstudents.collegeboard.org/getting-credit-placement/search-policies>

ATHLETIC INFORMATION

Athletes who are interested in participating in a Division I or Division II athletic program at a college or university must be registered with and certified by the NCAA Eligibility center. Please consult the NCAA Eligibility Center website at www.eligibilitycenter.org for information pertinent to requirements and ask your coach and/or school counselor for information. Ultimately, it is your responsibility to be certain you meet all of NCAA requirements and are registered. It is recommended that students register with the NCAA Eligibility Center after they have received grades from the second semester of their junior year. In addition to the core units required below, athletes must have a score from the ACT or SAT college entrance exam that is calculated with the core units GPA. Please consult the NCAA website for the GPA and test score scale.

DIVISION I	DIVISION II
16 Core-Course Rule 4 years of English. 3 years of Mathematics (Algebra I or higher). 2 years of Natural/Physical Science (1 year of lab if offered by high school). 1 year of additional English, Mathematics or Natural/Physical science. 2 years of Social Science. 4 years of additional courses (from any area above, world language or comparative religion/philosophy).	16 Core-Course Rule 3 years of English. 2 years of Mathematics (Algebra I or higher). 2 years of Natural/Physical Science (1 year of lab if offered by high school). 3 years of additional English, Mathematics or Natural/Physical Science. 2 years of Social Science. 4 years of additional courses (from any area above, world language or comparative religion/philosophy).



AP Capstone

Class	Grade Level	Course Length
AP Seminar	10, 11, 12	Year
AP Research	11, 12	Year

AP Seminar

Prerequisite: Working toward AP Capstone Diploma	1.0 credit
Grade(s): 10, 11, 12	Full Year
	AP Exam Fee: Estimated \$144
Designed by the College Board to parallel college-level courses in critical thinking and communications, AP Seminar courses provide students with the opportunity to explore complex real world issues through cross-curricular lenses. Course topics vary and may include local, civic, or global issues and interdisciplinary subject areas. Courses typically emphasize research, communication, and critical-thinking skills to explore the issues addressed. Students may also examine source materials such as articles and other texts; speeches and personal accounts; and relevant artistic and literary works.	

AP Research

Prerequisite: AP Seminar	1.0 credit
Grade(s): 11, 12	Full Year
	AP Exam Fee: Estimated \$144
AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. AP research is designed by the college board to replicate college level coursework by requiring students to design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000 - 5,000 words and a presentation with an oral defense.	



ART

Class	Grade Level	Course Length
Ceramics Beginning	9, 10, 11, 12	Semester
Ceramics Intermediate	10, 11, 12	Semester
Ceramics Advanced	10, 11, 12	Semester
Drawing Beginning	9, 10, 11, 12	Semester
Drawing Intermediate	10, 11, 12	Semester
Drawing Advanced	10, 11, 12	Semester
Painting Beginning	9 (Sem. 2), 10, 11, 12	Semester
Painting Intermediate	10, 11, 12	Semester
Painting Advanced	10, 11, 12	Semester
AP 2-D Art & Design	10, 11, 12	Full Year
AP 3-D Art & Design	10, 11, 12	Full Year
AP Drawing	10, 11, 12	Full Year



Ceramics Beginning

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, and 12	One semester
	Fee: \$35.00 (clay, glaze, etc.)
<p>In Principles of Manufacturing: Ceramics, students are introduced to knowledge and skills used in the proper application of principles of manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities. Students will gain an understanding of what employers require to gain and maintain employment in manufacturing careers. Ceramics/Pottery covers the same topics as Creative Art—Comprehensive, but focuses on creating three-dimensional works out of clay and ceramic material. Particular attention is paid to the characteristics of the raw materials, their transformation under heat, and the various methods used to create and finish objects.</p>	

Ceramics Intermediate

Prerequisite: Ceramics (Grade 'C' or better)	0.5 credit
Grade(s): 10, 11, and 12	One semester
	Fee: \$35.00 (clay, glaze, etc.)
<p>Ceramics/Pottery Intermediate will allow students who completed Beginning Ceramics/Pottery to expand their three-dimensional skills. Students will explore new mediums and techniques while focusing on observation and compositional elements. Contemporary trends in art will be integrated within this course to enrich student knowledge and awareness.</p>	

Ceramics Advanced

Prerequisite: Ceramics Intermediate (Grade 'C' or better)	0.5 credit
Grade(s): 10, 11, and 12	One semester
	Fee: \$35.00 (clay, glaze, etc.)
<p>Ceramics/Pottery Advanced is designed to provide the student with a more in-depth approach to three-dimensional work. Students will explore a wide range of media while strengthening their skills, focusing on a high level of expressiveness. Students will analyze their own work as well as study the merits and meanings of contemporary and historical works of art.</p>	

Drawing Beginning

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, and 12	One semester
	Fee: \$25.00 (paper, drawing supplies)
Creative Art—Drawing covers the same topics as Creative Art—Drawing/Painting, but focuses on drawing. In keeping with this attention on two-dimensional work, students typically work with several media (such as pen-and-ink, pencil, chalk, and so on), but may also focus on only one medium.	

Drawing Intermediate

Prerequisite: Drawing (Grade 'C' or better) (Prerequisite not needed with Instructor Approval)	0.5 credit
Grade(s): 10, 11, and 12	One semester
	Fee: \$25.00 (paper, drawing supplies)
Creative Art—Drawing Intermediate will allow students who completed Beginning Drawing to expand their skills. Students will explore new mediums and techniques while focusing on observation and compositional elements. Contemporary trends in art will be integrated within this course to enrich student knowledge and awareness.	

Drawing Advanced

Prerequisite: Drawing Int. (Grade 'C' or better) (Prerequisite not needed with Instructor Approval)	0.5 credit
Grade(s): 10, 11, and 12	One semester
	Fee: \$25.00 (paper, drawing supplies)
Creative Art—Drawing Advanced is designed to provide the student with a more in-depth approach to drawing. Students will explore a wide range of media while strengthening drawing skills, focusing on a high level of expressiveness. Students will analyze their own work as well as study the merits and meanings of contemporary and historical works of art.	

Painting Beginning

Prerequisite: Drawing Beginning (Grade 'C' or better) (Prerequisite not needed with Instructor Approval)	0.5 credit
Grade(s): 9 (2 nd semester) 10, 11, and 12	One semester
	Fee: \$35.00 (paint, brushes, paper, painting supplies)
Creative Art—Painting covers the same topics as Creative Art—Drawing/Painting, but focuses on painting. In keeping with this attention on two-dimensional work, students typically work with several media (such as watercolor, tempera, oils, acrylics, and so on), but may focus on only one medium.	

Painting Intermediate

Prerequisite: Art Comp (Grade 'C' or better) (Prerequisite not needed with Instructor Approval)	0.5 credit
Grade(s): 10, 11, and 12	One semester
	Fee: \$35.00 (paint, brushes, paper, painting supplies)
Creative Art—Painting Intermediate will allow students who completed Beginning Painting to expand their skills. Students will explore new mediums and techniques while focusing on observation and compositional elements. Contemporary trends in art will be integrated within this course to enrich student knowledge and awareness.	

Painting Advanced

Prerequisite: Painting (Grade 'C' or better) (Prerequisite not needed with Instructor Approval)	0.5 credit
Grade(s): 10, 11, and 12	One semester
	Fee: \$35.00 (paint, brushes, paper, painting supplies)
Creative Art—Painting Advanced is designed to provide the student with a more in-depth approach to painting. Students will explore a wide range of media while strengthening painting skills, focusing on a high level of expressiveness. Students will analyze their own work as well as study the merits and meanings of contemporary and historical works of art.	

AP – 2D Art & Design

Prerequisite: Teacher Approval	1.0 credit
Grade(s): 10, 11, and 12	Full year
	Fee: \$60.00 (Pencil, charcoal, dye, ink, canvas, pastel, fabric, acrylic) AP Exam Fee: Estimated \$95
Designed for students with a serious interest in art, the AP Studio Art—2D Design course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Students are asked to demonstrate proficiency in 2D design using a variety of art forms. These could include, but are not limited to, graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting or printmaking. This type of design involves purposeful decision making about how to use the elements and principles of art in an integrative way with the entire spectrum of ideas. Additionally, this class meets the requirements to be considered a Core Elective. Students are expected to take an exam given by the College Board each year in May. Students who pass this examination may earn college credit. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

AP – 3D Art & Design

Prerequisite: Teacher Approval	1.0 credit
Grade(s): 10, 11, and 12	Full year
	Fee: \$60.00 (Clay, glazes, fabric, dye, plaster, wood, paint, metal, wire, art supplies) AP Exam Fee: Estimated \$95
Designed for students with a serious interest in art, the AP Studio Art—3D Design course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the course typically emphasizes quality of work, and attention to issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts may be articulated through additive, subtractive, and/or fabrication processes. These might include traditional sculpture, architectural models, apparel, ceramics, three-dimensional fiber arts, or meal work, among others. Additionally, This class meets the requirements to be considered a Core Elective. Students are expected to take an exam given by the College Board each year in May. Students who pass this examination may earn college credit. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

AP – Drawing

Prerequisite: Teacher Approval	1.0 credit
Grade(s): 10, 11, 12	Full year
	Fee: \$60.00 (Pencil, charcoal, dye, ink, canvas, pastel, fabric, acrylic) AP Exam Fee: Estimated \$95
Designed for students with a serious interest in art, the AP Studio Art—Drawing course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the course typically emphasize quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of drawing. In this course, students explore representation, abstraction, and experimentation with a variety of drawing materials. Additionally, This class meets the requirements to be considered a Core Elective. Students are expected to take an exam given by the College Board each year in May. Students who pass this examination may earn college credit. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	



COMPUTER BASED ART

Computer Based Art	Grade Level	Course Length
Graphic Design and Illustration Beginning (Intro to art)	9, 10, 11, 12	Semester
Adobe Illustrator	9 (Sem 2), 10, 11, 12	Semester
Adobe Photoshop	9 (Sem 2), 10, 11, 12	Semester
Graphic Design and Illustration Advanced	10, 11, 12	Semester or Full Year
Animation Beginning	9 (Sem 2), 10, 11, 12	Semester
Animation Advanced	10, 11, 12	Semester
Illustration Beginning	9 (Sem 2), 10, 11, 12	Semester

Earn College Credit – the following courses can earn 3 College Credits through ACC per class.

Adobe Illustrator

Adobe Photoshop

See page 7 for more information



Graphic Design and Illustration Beginning (Intro to Art)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	One semester
	Fee: \$20 (Sketchbook, drawing, & printing materials)
In Graphic Design and Illustration Beginning, students build on their knowledge of the variety of media, skills, and processes in the Graphic Design and Illustration arts. Course work incorporates deepening study of specific and specialized media, skills, and processes. Additionally, studio work incorporates adequate time to experiment with the course work, develop personal expressions, and reflect on artwork and their processes. Within this context, students will be expected to deepen their understanding of various career opportunities in the Graphic Design and Illustration arts and the knowledge, skills, and educational requirements for those opportunities. This course may explore Digital Photography, Graphic Design Arts, Multi-Media Arts, and Story Boarding.	

Adobe Illustrator

Prerequisite: Graphic Design and Illustration Beginning	0.5 credit
Grade(s): 9 (semester 2), 10, 11, 12	One semester
College Credit is available upon successful completion of ACC application and passing final grade.	Fee: \$15 (Sketchbook, drawing, & printing materials)
Adobe Illustrator concentrates on the high-end capabilities of Adobe Illustrator as an illustration, design and vector drawing tool. Students learn how to use the tools to create digital artwork that can be used in web design, print media, and digital screen design. The course competencies and outline follow those set out by the Adobe Certified Associate exam in Graphic Design & Illustration Using Adobe Illustrator (2018).	

Adobe Photoshop

Prerequisite: Graphic Design and Illustration Beginning	0.5 credit
Grade(s): 9 (semester 2), 10, 11, 12	One semester
College Credit is available upon successful completion of ACC application and passing final grade.	Fee: \$15 (Sketchbook, drawing, & printing materials)
Adobe Photoshop 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.	

Graphic Design and Illustration Advanced

Prerequisite: Graphic Design and Illustration Beg & Adobe Illustrator or Adobe Photoshop	0.5 credit or 1.0 credit
Grade(s): 10, 11, 12	One semester or year long
	Fee: \$15 (Sketchbook, drawing, & printing materials)
In Graphic Design and Illustration Adv, students deepen their knowledge of the variety of media, skills, and processes in the Graphic Design and Illustration arts. Course work incorporates specific, specialized, and self-initiated study of media, skills, and processes. Additionally, studio work incorporates adequate time to experiment with the course work, develop personal expressions, reflect on artwork and their processes, receive expert feedback through critique, and transfer skills to other opportunities. Within this context, students will be expected to develop a body of work surrounding a common theme and explore various career opportunities in the Graphic Design and Illustration arts, as well as the knowledge, skills, and educational requirements for those opportunities. This course may support student led investigations of specialized processes in Digital Photography, Graphic Design Arts, Multi-Media Arts, and Story Boarding.	

Animation Beginning

Prerequisite: Graphic Design & Illustration Beginning	0.5 credit
Grade(s): 9 (sem 2), 10, 11, 12	Semester
	Fee: \$25 (Sketchbook, drawing, & printing materials)
Animation Beginning is an introduction course to traditional animation where students may work with various processes to create 2D and 3D computer-generated animations. This course may explore character design, layout, and story development, as well as a basic understanding of animation related vocabulary and careers. Additionally, this course incorporates the study of animation from a historical, social, and cultural viewpoint as a source of knowledge and inspiration.	

Animation Advanced

Prerequisite: Animation Beginning	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: \$25 (Sketchbook, drawing, & printing materials)
Animation Advanced is designed to deepen the animation knowledge of the student. Course work incorporates specific, specialized, and self-initiated study of animation media, skills, and processes. Additionally, studio work incorporates adequate time to experiment with the course work, develop personal expressions, reflect on artwork and their processes, receive expert feedback through critique, and transfer skills to other opportunities. Within this context, students will be expected to develop a body of work surrounding a common theme and explore various career opportunities in animation, as well as the knowledge, skills, and educational requirements for those opportunities. This course may support student led investigations of specialized processes in 2D and 3D Animation. Students will also continue to study master artworks as a source of learning and inspiration.	

Illustration Beginning

Prerequisite: Graphic Design & Illustration Beginning OR Drawing	0.5 credit
Grade(s): 9 (Sem 2), 10, 11, 12	Semester
	Fee: \$25 (Sketchbook, drawing, & printing materials)
Illustration Beginning is an introduction course for development in visual communication where students may work with various processes for illustrative design. This course may explore character design, layout, and story development, as well as a basic understanding of animation related vocabulary and careers. Additionally, this course incorporates the study of illustration from a historical, social, and cultural viewpoint as a source of knowledge and inspiration, as well as an exploration of illustration careers.	

PHOTOGRAPHY & VIDEOGRAPHY

Photography	Grade Level	Course Length
Photography Beginning (Intro to Photo)	9, 10, 11, 12	Semester
Photography Intermediate	9 (Sem 2), 10, 11, 12	Semester
Photography Advanced	10, 11, 12	Semester
Digital Photography Beginning	9 (Sem 2), 10, 11, 12	Semester
Digital Photography Intermediate	10, 11, 12	Semester
Digital Photography Advanced	10, 11, 12	Semester
AP 2-D Photography	11, 12	Full Year
Filmmaking: Rebel News Network (RNN)	9, 10, 11, 12	Full Year



Earn College Credit – the following courses can earn 3 College Credits through ACC per class.

Photography Intermediate
Digital Photography Beginning
Digital Photography Intermediate

See page 7 for more information

Photography Beginning (Intro to Photo)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, and 12	Semester
	Fee: \$50.00 (Chemicals, Film, Paper, Supplies)
In Photography Beginning, students will receive a fundamental course covering selection, care, maintenance, handling of cameras, film types, light metering, and compositional techniques. Emphasis will be on 35mm SLR camera techniques. Basic darkroom procedures such as film processing, contact printing, and enlarging will be covered. Additionally, this course incorporates the study of photography from a historical, social, and cultural viewpoint as a source of knowledge and inspiration, as well as an exploration of possible photography careers.	
This class requires a SLR (35mm Film Camera)	

Photography Intermediate

Prerequisite: Photography Beginning	0.5 credit
Grade(s): 9(Sem2), 10, 11, 12	Semester
ACC Concurrent Enrollment credit is available.	Fee: \$40.00 (Chemicals, Film, Paper, Supplies)
Photography Intermediate emphasizes photography as an art form. Students will be encouraged to use photography as a creative and expressive tool through experimental darkroom techniques, multiple image exposure, hand coloring and other expressive processes which are used to produce strong visual images. Additionally, students will learn how to use the zone system for managing film and print exposure. Course work incorporates specific, specialized, and self-initiated study of media, skills, and processes. Studio work incorporates adequate time to experiment with the course work, develop personal expressions, and reflect on artwork and their processes. Students will also analyze their own work as well as study the merits and meanings of contemporary and historical works of art, as well as an exploration of possible photography careers.	

Photography Advanced

Prerequisite: Photography Intermediate	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: \$40.00 (Chemicals, Film, Paper, Supplies)
Photography Advanced is designed to provide students with a more in-depth approach to photography. Instruction regarding the creative process becomes focused upon students developing their own artistic style. Historic styles, techniques, and contemporary photographic trends will be analyzed as students critique their own work and begin to develop professional portfolios. Within this context, students will explore various career opportunities in Photography and the knowledge, skills, and educational requirements for those opportunities. In addition, students may explore the relationship of traditional darkroom photography to digital photography, including how to use the zone system of exposure for both.	

Digital Photography Beginning

Prerequisite: Photography Beginning	0.5 credit
Grade(s): 9 (Sem 2), 10, 11, and 12	Semester
	Fee: \$20.00 (Paper, Supplies)
Digital Photography Beginning will introduce students to the use of digital cameras and digital image-editing software, primarily using Adobe Photoshop and Lightroom. The roles of scanning processes and equipment, image picture-taking modes and printing preparation, and various output devices will be explored in producing the photographic image. Exposure techniques such as pre-visualizing and the application of visual elements and lighting techniques will be stressed. Additionally, this course incorporates the study of photography from a historical, social, and cultural viewpoint as a source of knowledge and inspiration, as well as an exploration of possible photography careers.	

Digital Photography Intermediate

Prerequisite: Digital Photography Beginning	0.5 credit
Grade(s): 10, 11, 12	Semester
ACC Concurrent Enrollment credit is available.	Fee: \$20.00 (Chemicals, Film, Paper, Supplies)
Digital Photography Intermediate is designed for students continue to learn advanced digital camera and image editing techniques, including the use of the Camera Raw file format. Computer software, scanning equipment, out-put devices, and studio lighting will be employed. Course work incorporates specific, specialized, and self-initiated study of media, skills, and processes. Additionally, studio work incorporates adequate time to experiment with the course work, develop personal expressions, and reflect on artwork and their processes. Students will also analyze their own work as well as study the merits and meanings of contemporary and historical works of art, as well as continue study of possible photography careers.	

Digital Photography Advanced

Prerequisite: Digital Photography Intermediate	0.5 credit
Grade(s): 10, 11, 12	Semester
ACC Concurrent Enrollment credit is available.	Fee: \$20.00 (Chemicals, Film, Paper, Supplies)
Digital Photography Advanced is designed to deepen the digital photography knowledge of the student with regard to technical expertise, creativity, and professional equipment. Technical aspects include film to digital transfer, lighting, digital image manipulation, alternative processes, large format camera work and stock photography. Creative exploration of subject matter, lighting, color theory and other psychological characteristics in the development of images are developed. A variety of photographic equipment is utilized for the studio and on location. Course work incorporates specific, specialized, and self-initiated study of animation media, skills, and processes; while studio work incorporates adequate time to experiment with the course work, develop a body of work with a common theme, reflect on artwork and their processes, receive expert feedback through critique, and transfer skills to other opportunities. Students will also analyze their own work as well as study the merits and meanings of contemporary and historical works of art, as well as continue study of possible photography careers.	

AP 2-D Photography Only (AP Level Course)

Prerequisite: Commercial Photography I and II	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$40.00 (Chemicals, Film, Paper, Supplies) and the AP Exam Fee: Estimated \$95
Designed for students with a serious interest in photography, the AP Studio Art—2D Design course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Students are asked to demonstrate proficiency in photography. This type of design involves purposeful decision making about how to use the elements and principles of art in an integrative way with the entire spectrum of ideas. Additionally, this course is an Advanced Placement course. Students are expected to take an exam given by the College Board each year in May. Students who pass this examination may earn college credit. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade. STUDENTS SHOULD HAVE THEIR OWN MANUAL FILM CAMERA AND A DSLR.	

Filmmaking (RNN)

Prerequisite: Instructor Approval	0.5 credit
Grade(s): 9, 10, 11, 12	Semester or Full Year
In Filmmaking, students learn how to use digital video editing software to create, edit, and save movies. Students create movies using digital video clips, digital photos and music. The basics of shooting good video, capturing video from a camera to a computer, creating movies for the web, and creating a finished product will be covered. Students in this class will be responsible for the daily production of Rebel News Network.	

BUSINESS & MARKETING

Class	Grade Level	Course Length
Intro to Business (Pre-req to Marketing, Mgmt, Entrepreneurship classes)	9, 10, 11, 12	Semester
Personal Finance	11, 12	Semester
Principles of Management (Sports Management)	10, 11, 12	Semester
Principles of Marketing (Sports and Entertainment Marketing I)	10, 11, 12	Semester
Event Marketing (Sports and Entertainment Marketing 2)	9, 10, 11, 12	Semester
AMPED (Algebra I in Manufacturing Processes, Entrepreneurship and Design)	9	Full Year
Social Media for Business	9, 10, 11, 12	Semester
Entrepreneurship	9, 10, 11, 12	Semester



Intro to Business

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	One semester
	Fee: \$30 DECA membership fee (One time yearly fee)
Introduction to Business focuses on the operation of the American business system. The course covers the fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business, and social responsibilities. All student enrolled will be eligible to participate in DECA.	

Personal Finance

Prerequisite: None	0.5 credit
Grade(s): 11, 12	One semester
	Fee: \$30, optional with DECA participation
Personal Finance surveys the basic personal financial needs of most individuals. The course emphasizes the basics of budgeting and buying, saving and borrowing money, the intricacies of home ownership, income tax and investments, and the wise use of insurance, wills, and trusts. All student enrolled will be eligible to participate in DECA.	

Principles of Management (Sports Management)

Prerequisite: Intro to Business	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: \$30, optional with DECA participation
Principles of Management provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches. We will look at the principles of management through the lens of billion dollar sports industry. All student enrolled will be eligible to participate in DECA.	

Principles of Marketing (Sports and Entertainment Marketing I)

Prerequisite: Intro to Business	0.5 credit
Grade(s): 9, 10, 11, 12	One semester
	Fee: \$30, optional with DECA participation
Principles of Marketing presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to business and the individual consume. Areas of instruction will include advertising, game day promotions, ticket pricing, TV, radio, and cable contracts, player salaries, endorsement contracts, licensing, promotional tie-ins and more. Guest speakers, projects, and field trips are an important part of this class.	

Event Marketing (Sports and Entertainment Marketing II)

Prerequisite: Principles of Marketing or Sports and Entertainment Marketing I	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: \$30 (software)
Event Marketing/Communications defines the importance and role of marketing, media and public relations in the event planning industry. Identify marketing and communication tools such as social media, promotional events, networking and blogs. Design a marketing plan to include target market research, communication tools, objectives, strategies, and implementation. Students will learn about marketing through the dynamic world of sports and entertainment. Areas of instruction will include advertising, game day promotions, ticket pricing, TV, radio, and cable contracts, player salaries, endorsement contracts, licensing, promotional tie-ins and more. Guest speakers, projects, and field trips are an important part of this class. All student enrolled will be eligible to participate in DECA. All student enrolled will be eligible to participate in DECA	

AMPED with Algebra I (Algebra in Manufacturing Processes, Entrepreneurship and Design)

Prerequisite: Concurrent enrollment in both AMPED classes Entrepreneurship (business elective class) AND AMPED Algebra I	1.0 credit
Grade(s): 9	Full Year
	Fee: None
The AMPED with Algebra 1 (Algebra 1 in Manufacturing Processes, Entrepreneurship and Design course meets CTE standards for Design and Pre-Manufacturing Pathway and must be taught in conjunction with Algebra 1 course that follows Jeffco Algebra Curriculum. Both teachers are instructors in both classes so that students experience the connections between Algebra and Manufacturing. This is a contextual learning class that double blocks Algebra I and Entrepreneurship. This class is appropriate for all students that have passed pre-algebra and are ready for Algebra I. Students must be enrolled in Algebra I with AMPED and this business class.	

Entrepreneurship

Prerequisite: Intro to Business	0.5 credit
Grade(s): 9, 10, 11, 12	One semester
	Fee: \$30 (software)
Entrepreneurship teaches entrepreneurs planning skills from the development of a conceptual business to an actual comprehensive business plan. This practical approach includes one-on-one counseling with the instructor and professional volunteer counselors. Guest speakers are an integral part of the course. Additional topics include marketing strategies and tactics, liability protection, growth management, financial management and projections, networking, and funding options.	

Social Media for Business

Prerequisite: Intro to Business	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: \$30 (software)
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.	

*Any student may sign up for DECA and be involved in DECA competitions, even if they are not enrolled in Business classes.



COMPUTER SCIENCE

Class	Grade Level	Course Length
Computer Science Foundations A	9, 10, 11, 12	Semester
Coding I	9, 10, 11, 12	Semester
Coding II	9, 10, 11, 12	Semester
AP Computer Science Principles	10, 11, 12	Year
AP Computer Science A	11, 12	Year



Computer Science Foundations A

Prerequisite: None	0.5 credit
9, 10, 11, 12	Semester
	Fee: None
<p>Computer Science Foundations (CSF) A is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.</p>	

Coding I

Prerequisite: Computer Science Foundations	0.5 credit
9, 10, 11, 12	Semester
	Fee: None
<p>Coding I is a course 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 multistep 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.</p>	

Coding II

Prerequisite: Coding I	0.5 credit
9, 10, 11, 12	Semester
	Fee: None
<p>Coding II challenges students to develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on programming projects of increased complexity. In so doing, they develop key skills of discernment and judgment as they must choose from among many languages, development environments, and strategies for the program life cycle. Course content is reinforced through numerous short- and long-term programming projects, accomplished both individually and in small groups. These projects are meant to hone the discipline and logical thinking skills necessary to craft error-free syntax for the writing and testing of programs. Upon completion of this course, proficient students will demonstrate an understanding of object-oriented programming using high-level languages.</p>	

AP Computer Science Principles

Prerequisite: Algebra I required, Coding I or previous coding experience is helpful, Computer Science Foundations is also helpful	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: AP Exam Fee Estimated \$95
<p>AP Computer Science Principles - AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.</p>	

AP Computer Science A

Prerequisite:	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: AP Exam Fee Estimated \$95
<p>AP Computer Science A - AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.</p>	

ENGLISH, ENGLISH ELECTIVES, THEATRE

The English curriculum addresses the state and district standards which expect students to:

1. Read and understand a variety of materials.
2. Read and recognize literature as an expression of the human experience.
3. Write effectively for a variety of purposes and audiences.
4. Speak and listen for effective communication in a variety of contexts.
5. Apply conventions of language for effective communication.
6. Locate, evaluate, and use relevant information sources for their reading, writing, speaking, listening and viewing.
7. Apply complex thinking skills when reading writing, speaking listening, and viewing.
8. Evaluate and improve the quality of their own reading, writing, speaking, listening, and viewing.



Pathways Chart	9	10	11	12
Standard Pathway	English/Lang Arts 9	English/Lang Arts 10	English/Lang Arts 11	English/Language Arts 12 English 12-Literary Genre English 12-Comp/Lit/College Bound
Honors/AP Pathway	English/Lang Arts 9 Honors	English/Lang Arts10 Honors	AP English Language/Composition	AP English Literature/Composition

English/Lang Arts 9

Prerequisite: None	1.0 credit
Grade(s): 9	Full Year
	Fee: Annotation materials \$22/year
English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. Study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction.	

English/Lang Arts 9 Honors

Prerequisite: Signed Honors Agreement	1.0 credit
Grade(s): 9	Full Year
	Fee: Annotation materials \$15/year
English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. Study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.	

English/Lang Arts 10

Prerequisite: None	1.0 credit
Grade(s): 10	Full Year
	Fee: Annotation materials \$20/year
English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well through presentations.	

English/Lang Arts 10 Honors

Prerequisite: Signed Honors Agreement	1.0 credit
Grade(s): 10	Full Year
	Fee: Annotation materials \$20/year
English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well through presentations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.	

English/Lang Arts 11

Prerequisite: None	1.0 credit
Grade(s): 11	Full Year
	Fee: Annotation materials \$15/year
English/Language Arts 11 develops students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, which students apply to compositions that utilize research and rhetoric. Students read nonfiction and literary works as a means to understand the world and to inform their writing. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. Participation in class dialogue and delivering presentations are expectations of this course. The annotation fee is charged for the purchase of books and printed materials that students annotate and keep when the school year ends.	

AP English Language/Composition

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 11	Full Year
AP exams of 3 or higher can earn college credit	Fee: \$90.00 book fee (approximate) Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes.	

English/Lang Arts 12

Prerequisite: None	1.0 credit
Grade(s): 12	Full Year
	Fee: Annotation materials \$15/year
English/Language Arts 12 blends composition, analytical reading, and literature into a cohesive whole. Students combine purposes, patterns, and genres in writing while incorporating research and rhetorical techniques. Collaboration and critical thinking lead to more complex presentations and products, with students honing their comprehension skills while reading more complicated literary and nonfiction texts. The annotation fee is charged for the purchase of books and printed materials that students will annotate and keep when the school year ends.	

English/Lang Arts 12 – Literary Genre

Prerequisite: None	1.0 credit
Grade(s): 12	Full Year
	Fee: None
English/Language Arts 12 blends composition, analytical reading, and literature into a cohesive whole. Students combine purposes, patterns, and genres in writing while incorporating research and rhetorical techniques. Collaboration and critical thinking lead to more complex presentations and products, including a capstone project for students that still need to complete this requirement. Students will hone their comprehension skills while reading more complicated literary and nonfiction texts. In this English/Language Arts 12 option, students will focus their attention primarily on the study of one literary genre; however, other genres of writing will also be studied. The annotation fee is charged for the purchase of books and printed materials that students will annotate and keep when the school year ends.	

English/Lang Arts 12 – Comp/Lit/CollegeBnd (for college bound students)

Prerequisite: None	1.0 credit
Grade(s): 12	Full Year
	Fee: Annotation materials \$14/year
English/Language Arts 12 blends composition, analytical reading, and literature into a cohesive whole. Students combine purposes, patterns, and genres in writing while incorporating research and rhetorical techniques. Collaboration and critical thinking lead to more complex presentations and products, with students honing their comprehension skills while reading more complicated literary and nonfiction texts. In this English/Language 12 option, the logic and critical-thinking skills that accompany effective writing will be reinforced; this course provides continued and advanced instruction in writing for a variety of purposes and audiences. The annotation fee is charged for the purchase of books and printed materials that students will annotate and keep when the school year ends.	

AP English Literature/Composition

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 12	Full Year
AP exams of 3 or higher can earn college credit	Fee: \$90.00 book fee (approximate) Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing)	

English electives may be taken in addition to the above required courses

Elective Class	Grade Level	Course Length
Forensics Speech - Debate	9, 10, 11, 12	Full Year
Creative Writing	10, 11, 12	Semester
Film Studies	10, 11, 12	Semester
Technical Theatre A (Beginning Stagecraft)	9, 10, 11, 12	Semester
Foundation of Design & Performance (Beg. Theatre)	9, 10	Semester
Performance & Communications A (Acting I)	10, 11, 12	Semester
Performance & Communications B (Acting II)	10, 11, 12	Semester
Children's Theatre	10, 11, 12	Semester
Unified Mentor	10, 11, 12	Semester

Forensics Speech-Debate

Prerequisite: None	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: Competition entry and materials fees \$130.00
Forensic Speech—Debate courses offer students the opportunity to learn how to use oral skills in formal and informal situations. In these courses, students are able to develop such skills as logic and reasoning, research and analysis, organization of thought and supporting materials, argumentative style and skill, and effective presentation of one's voice and body. Often linked to an extracurricular program, these courses introduce students to the methods, aims, and styles used in various kinds of debates (formal debate or Lincoln-Douglas).	

Creative Writing

Prerequisite: None	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: None
Creative Writing offers students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing courses cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting).	

Film Studies

Prerequisite: None	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: None
Film Studies courses expose students to the artistic techniques used by filmmakers. Students learn about the operation of a camera, lighting techniques, camera angles, sound, and editing techniques as they relate to the content of the film. Course topics may also include various styles of filmmaking (documentary, storytelling, news magazines, animation, and so on), through studying the films of major filmmakers.	

Technical Theatre A (Beginning Stagecraft)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	One semester
	Fee: \$20 for paintbrushes and crafting supplies
Technical Theatre A introduces methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. This course explores the proper procedures of serving on stage crews.	

Foundation of Design and Performance (Beginning Theatre)

Prerequisite: None	0.5 credit
Grade(s): 9, 10	One semester
	Fee: None
In Foundations of Design & Performance, students are introduced to the variety of programs and occupations in the arts, audio/video technology, and production. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.	

Performance and Communications A (Acting I)

Prerequisite:	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: None
<p>This course focuses on the craft of the actor. Students work to develop character, relationships and objectives through scripted and non-scripted work. Students may apply the theory of Stanislavski to their study to achieve modern realism present on stage and in film. Coursework may include monologues, duet scenes, group scenes, and various acting activities to discover character, voice, and movement.</p> <p>Performance & Communications A introduces students to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership.</p>	

Performance and Communications B (Acting II)

Prerequisite: Acting I (Performance and Communications A)	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: None
<p>This course focuses on the craft of the actor. Students work to develop character, relationships and objectives through scripted and non-scripted work. Students may apply the theory of Stanislavski to their study to achieve modern realism present on stage and in film. Coursework may include monologues, duet scenes, group scenes, and various acting activities to discover character, voice, and movement.</p> <p>Performance & Communications A introduces students to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership.</p>	

Stage Production Management: Children's Theatre

Prerequisite: None	0.5 credit
Grade(s): 10,11,12	One semester
	Fee: None
<p>Theatre Arts-Children's focuses on the study and performance of drama using children's productions. It is intended to promote students' experience and skill development in one or more aspects of theatrical production, but they concentrate on acting and performance skills for children's productions.</p>	

Unified Mentor (Student Aide for SSN Students)

Prerequisite: None	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: None
<p>Unified mentors will offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students. This class is comprised of peer mentors who work with students with special needs that choose to participate in an adapted experience. Mentors are trained by the instructors before beginning contact with the students with disabilities in the class.</p> <p>Mentors at Columbine will help SSN students in one of the following areas: Classroom, Theatre, PE, or Music.</p>	



FAMILY and CONSUMER SCIENCE (FACS)

Class	Grade Level	Course Length
Teen Choices (Fulfills PE Grad. Requirement)	9, 10, 11, 12	Semester
Child & Adolescent Development	9, 10, 11, 12	Semester
Life Management	10,11, 12	Semester
Education Exploration	11, 12	Semester
Fashion Design and Merchandising	9, 10, 11, 12	Semester or Full Year
Interior Design 1 Residential and Commercial	9, 10, 11, 12	Semester or Full Year
Culinary Nutrition	9, 10, 11, 12	Semester
Culinary Essentials - Levels 2 and 3 (replaces ProStart)	10,11,12	Full Year
WBL Hospitality or FACS Design (This is a work-based learning experience opportunity for students in the dedicated FACS program.)	10,11,12	Full Year



Teen Choices (fulfills PE graduation requirement through a health credit)

Prerequisite: None	0.5 credit
Grade(s): 9,10,11,12	One Semester
	Fee: None
In Teen Choices, students will learn how to make healthy decisions throughout their teen years. They will learn skills and practices required by individuals to develop, manage and strengthen: social, psychological, and physical wellness, interpersonal relationships, safe sexual decision making, anti-substance use practices, and understanding teens and the law.	

Life Management

Prerequisite: None	0.5 credit
Grade(s): 10, 11, 12	One Semester
	Fee: \$10 for field trip
Students in Life Management will develop decision-making skills to become educated consumers with an understanding and academic knowledge of consumer resources and financial organizations. The course focuses on personal and family resources, job and career, personal and family finances, and wellness. (Relevant topics include: independent living, healthy lifestyles, career research and job portfolios, personal financial literacy, investments, credit, insurance, leasing vs. purchasing of autos and homes)	

Child & Adolescent Development

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	One Semester
	Fee: None
The purpose of Child and Adolescent Development 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.	

Education Exploration

Prerequisite: None	0.5 credit
Grade(s): 11, 12	One Semester
	Fee: None
Education Exploration is a semester course designed to provide students with an overview of professions within education. Students will discover their own learning style and how learning styles impact teaching and the delivery of lessons. Experiences with various education professionals will enhance the understanding of classroom planning, licensure requirements, and career opportunities within school systems. This course includes a minimum of 15 extended learning hours, which may be outside of class time. In addition; This course allows students to intern at an elementary school with a teacher and their class to create opportunities for working with students. This class applies to a student's practical and fine art credit and senior core elective necessary for graduation. Students need to have transportation to and from the elementary school.	

Fashion Design and Merchandising

Prerequisite: None	0.5 credit each semester taken
Grade(s): 9, 10, 11, 12	One Semester or Full Year – must sign up for both class codes for full year
	Fee: \$25.00 per semester (fabric, thread, and notions for sewing projects)
Fashion Design and Merchandising is for students who wish to increase their knowledge and further their skills in the fashion design and merchandising industry. Topics include fashion designers, careers, clothing selection, fibers and fabrics, and fashion illustration. Projects are planned and completed in relation to the student's individual interest and skill level.	

Interior Design I – Residential and Commercial

Prerequisite: None	0.5 credit each semester taken
Grade(s): 9, 10, 11, 12	One Semester or Full Year
	Fee: \$25.00 per semester (foam board, fabric, paint, markers, paper)
The purpose of Interior Design I- Residential and Commercial 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.	

Culinary Nutrition (Culinary Arts Level 1)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	One Semester
	Fee: \$75 (food labs)
The purpose of Culinary Nutrition is to develop lifelong, healthy individuals with an understanding of healthy and nutritious cooking techniques. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient dense foods, exploring careers related to culinary nutrition, and practicing wise consumer decisions. In addition; Student complete weekly cooking labs. This class applies to student's practical and fine art credit and senior core elective necessary for graduation.	

Culinary Essentials (replaces ProStart – Level 2/3)

Prerequisite: None	1.0 credits
Grades: 10,11, 12	Full Year
College credit through Metro can be earned	Fee: \$150.00 for year (food labs)
Culinary Essentials 1 is designed to introduce students to a variety of culinary skills and food preparation. Through instruction and culinary lab practice, this class will provide an opportunity for students to learn food preparation and demonstrate food safety. Some topics include introductory culinary skills and preparation of items such as quick breads, yeast breads, and eggs; as well as meal and menu planning, nutrition, and food borne illnesses. Students will be able to: Demonstrate the correct procedures' and techniques in introductory culinary labs. Analyze nutritional guidelines and plan menus that are nutritionally balanced. Demonstrate food safety standards.	

Work Based Learning Hospitality

Prerequisite: Student must be Registered in Pro-Start Culinary or Hospitality	1.0 credits
Grades: 10, 11, 12	Full Year
	Fee: None
The Work-based Learning (WBL) experience allows for the application of the Knowledge, Skills, and Abilities that are delivered through the coursework of the Program of Study (POS). Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. 100 hours of internships is equivalent to .5 elective credit. Work-based Learning must follow Board Policy.	

Work Based Learning FACS Design

Prerequisite: Student must be Registered in Fashion Design and Merchandising or Interior Design	1.0 credits
Grades: 10, 11, 12	Full Year
	Fee: None
The Work-based Learning (WBL) experience allows for the application of the Knowledge, Skills, and Abilities that are delivered through the coursework of the Program of Study (POS). Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. 100 hours of internships is equivalent to .5 elective credit. Work-based Learning must follow Board Policy.	

Mathematics & Engineering					
	8	9	10	11	12
Standard Pathway	Pre-Algebra	Algebra I AMPED Extended Algebra	Geometry GIC Honors Geometry	Intmed. Alg Algebra II Honors Algebra II	Algebra II Pre-Calculus/Trig Algebra III (CU Optional) AP Statistics (CU)
Advanced Pathway A	Algebra I	Geometry GIC Honors Geometry	Algebra II Algebra II Honors	Pre-Calculus/Trig AP PreCalc/Trig Statistics (CU)	General Calculus AP Calculus AB AP Statistics (CU)
Advanced Pathway B	Geometry	Honors Geometry Algebra II Honors Algebra II	Algebra II Honors Pre-Calculus/Trig AP PreCalc/Trig AP Statistics (CU)	Pre-Calc/Trig AP PreCalc/Trig AP Calculus AB General Calculus AP Statistics(CU)	AP Calculus AB AP Calculus BC AP Statistics (CU)
Advanced Pathway C	Algebra II	AP PreCalc/Trig	AP Calculus AB AP Statistics (CU)	AP Calculus AB AP Calculus BC AP Statistics (CU)	AP Calculus BC Other Dual Enrollment/ College Options
Elective		Project Lead the Way – Introduction to Engineering Design			
			Project Lead the Way – Principles of Engineering		



Project Lead the Way – Intro to Engineering Design

Prerequisite: none	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: \$50 for materials and supplies
Following Project Lead the Way's suggested curriculum, PLTW Introduction to Engineering Design courses provide an opportunity for students to become involved in hands-on projects that require mathematics, science, and engineering applications. In these courses, students review problems, document work in an engineering notebook, and design solutions using 3D modeling software.	

Project Lead the Way – Principles of Engineering

Prerequisite: Intro to Engineering; Concurrent enrollment in geometry or higher	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$20 for materials and supplies
Following Project Lead the Way's suggested curriculum, PLTW Principles of Engineering courses focus on solving a wide range of engineering problems. Topics such as mechanisms, structure and material strength, and automation are explored as students research, strategize, and document the design process.	

Algebra I

Prerequisite: Pre-Algebra, Teacher Signature on registration card	1.0 credit
Grade(s): 9, 10	Full Year
	Fee: None
This course follows the Algebra 1 Jeffco Bridge to Curriculum. Mathematical reasoning, modelling, problem solving and communication are developed throughout the following units of study: Reasoning with Equations/Inequalities, Modeling with Linear Functions, Introduction to Exponential Functions, Quadratic Functions and Polynomial Operations, Descriptive Statistics, Analyzing Functions, Algebraic Reasoning with Geometric Concepts. A scientific calculator is required for this course.	

Algebra I with AMPED (Algebra in Manufacturing Processes, Entrepreneurship and Design)

Prerequisite: Pre-Algebra, Teacher Signature on registration card	1.0 credit
Grade(s): 9	Full Year
	Fee: None
The Algebra 1 with AMPED (Algebra 1 in Manufacturing Processes, Entrepreneurship and Design) course follows Jeffco Algebra Curriculum, meets CTE standards for the Design and Pre-Manufacturing Pathway and must be taught in conjunction with AMPED. Both teachers are instructors in both classes so that students experience the connections between Algebra and Manufacturing. A scientific calculator is required for this course. This is a contextual learning class that double blocks Algebra I and Entrepreneurship. This class is appropriate for all students that have passed pre-algebra and are ready for Algebra I. Students must be enrolled in Algebra I with AMPED and the corresponding elective class listed under the Business section.	

Algebra II

Prerequisite: Algebra 1 and Geometry, Teacher Signature on card	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
A graphing calculator is required for this course.	Fee: None
This course follows Jeffco Algebra 2 Bridge to Curriculum. Mathematical reasoning, modelling, problem solving and communication are developed throughout the following units of study: Functions/Transformations/Systems, Complex Numbers through Quadratics, Polynomials/Polynomial Functions, Rational Exponents/Radical Functions, Exponential/Logarithmic Functions, Trigonometric Functions, Probability/Statistics, and Rational Functions.	

Algebra II Honors

Prerequisite: Algebra 1 and Geometry (Grade 'A'), or Honors Geometry (Grade 'B' or better), teacher recommendation, and a signed Honors Agreement, Teacher Signature on registration card	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: None
This course follows Jeffco Algebra 2 Bridge to Curriculum. District guidelines for honors course approval must be followed. The honors designation gives students the opportunity to engage in accelerated pacing, additional content, and applied learning/projects. Mathematical reasoning, modelling, problem solving and communication are developed throughout the following units of study: Functions/Transformations/Systems, Complex Numbers through Quadratics, Polynomials/Polynomial Functions, Rational Exponents/Radical Functions, Exponential/Logarithmic Functions, Trigonometric Functions, Probability/Statistics, and Rational Functions. A graphing calculator is required for this course.	

Algebra III (College credit class - CU Denver)

Prerequisite: Algebra II, Teacher Signature on registration card	1.0 credit
Grade(s): 11, 12	Full Year
College credit through CU Denver can be earned	Fee: Approximately \$308 in college fees
This full year course reviews and extends algebraic concepts for students that have already taken Algebra 2. This class will prepare students for a college Calculus Sequence. All students should be able to complete fundamental problem solving using: Function Notation and Transformations, Linear Equations graphing and solving, Quadratic equations graphs and solutions, Polynomial graphs and Fundamental Theorem of Algebra, Rational Function graphs, Exponential and Logarithmic graphs and equation solving. Systems of linear equations will be used to solve applications. All students will be proficient at data analysis and graphical problem solving using the Ti-84 Plus CE Calculator which is required for this course . In addition, the cost is approximately \$308 for this 4-credit college course. Credits may be transferable, but it is highly recommended that students contact their intended college/university to verify this. CHS cannot guarantee transfer of credits to out of state colleges. The payment for the course is due second semester to CU. The grade given to CU is the average of first semester and second semester grades. Students must be enrolled the entire school year to be eligible to earn credit from CU.	

Algebra III (Fourth year math class – NOT intended for college credit)

Prerequisite: Algebra II, Teacher Signature on registration card	1.0 credit
Grade(s): 12	Full Year
	Fee: None
This full year course reviews and extends algebraic concepts for students that have already taken Algebra 2. Topics include all of the one semester topics along with operations with irrational exponents, conics, exponential and logarithmic functions, matrices and determinants, sequences, series and probability. A graphing calculator is required for this course. College credit is NOT an option with this class.	

General Calculus

Prerequisite: Pre-Calculus/Trigonometry, Teacher Signature on card	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: None
This course follows the College Board's suggested curriculum designed to parallel college-level calculus courses. Students are provided with an intuitive understanding of the concepts of calculus and experience with its methods and applications. Topics include: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of change problems); and integral calculus (including antiderivatives, the definite integral and application of integrals). A graphing calculator is required for this course.	

AP Calculus AB

Prerequisite: Pre-Calculus/Trigonometry ('A' or better, teacher approval, signed AP Agreement) or Pre-Calculus/Trigonometry Honors ('C' or better, teacher approval, signed AP Agreement), Teacher Sig	1.0 credit
Grade(s): 10, 11, 12	Full Year
AP exams of 3 or higher can earn college credit	Fee: cost of textbook, AP Exam Fee Estimated \$95
This course follows the College Board's suggested curriculum designed to parallel college-level calculus courses. AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus(including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of change problems); and integral calculus (including anti-derivatives, the definite integral and application of integrals). A graphing calculator is required for this course. In addition, students are responsible for purchasing the textbook for this class. A main focus of this class is to prepare students for the AP exam in early May. The rigor of this class is far above that of a General Calculus class and students should be prepared for a heavy work load, a fast pace and to spend a significant amount of time outside of class studying the concepts presented. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

AP Calculus BC

Prerequisite: Successful completion of AP Calculus AB with a 'C' or higher and teacher approval is highly recommended. Juniors in Honors Trig may opt in to class upon completion of the summer assignment and minimal test score to display readiness in the fall. Teacher Sig	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: cost of AP Calc AB textbook, AP Exam Fee Estimated \$95
This course follows the College Board's suggested curriculum designed to parallel college-level calculus courses. AP Calculus BC provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications, and also requires additional knowledge of the theoretical tools of calculus. This course assumes a thorough knowledge of elementary functions, and covers all of the calculus topics in AP Calculus AB as well as the following topics: vector functions, parametric equations and graphs, polar coordinates and functions, advanced techniques of integration, advanced applications of the definite integral, polynomial approximation and series. A graphing calculator is required for this course. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

Geometry

Prerequisite: Algebra 1	1.0 credit
Grade(s): 9, 10	Full Year
	Fee: None
This course follows Jeffco Geometry Bridge to Curriculum. Mathematical reasoning, modelling, problem solving and communication are developed throughout the following units of study: Expressing Geometric Properties with Equations, Congruence, Similarity, Right triangles and Trig, Quadrilaterals and Polygons, Probability and Statistics, Circles, Geometric Measurement and Dimension. A scientific calculator is required for this course.	

Geometry Honors

Prerequisite: Algebra 1 (Grade 'A', teacher rec., and signed Honors Agreement)	1.0 credit
Grade(s): 9, 10	Full Year
	Fee: None
This course follows Jeffco Geometry Bridge to Curriculum. District guidelines for honors course approval must be followed. The honors designation gives students the opportunity to engage in accelerated pacing, additional content, and applied learning/projects. Mathematical reasoning, modelling, problem solving and communication are developed throughout the following units of study: Expressing Geometric Properties with Equations, Congruence, Similarity, Right triangles and Trig, Quadrilaterals and Polygons, Probability and Statistics, Circles, Geometric Measurement and Dimension. A scientific calculator is required for this course.	

Geometry in Construction

Prerequisite: Successful completion of Algebra 1 AND Concurrent enrollment in both Construction with Geometry (technical elective class) AND Geometry with Construction (geometry math class)	1.0 credit
Grade(s): 9, 10, 11	Full Year
	Fee: \$70.00 (Safety Equipment, t-shirt, building materials, OSHA Training)
This course follows Jeffco Geometry Bridge to Curriculum. Mathematical reasoning, modelling, problem solving and communication are developed throughout the following units of study: Expressing Geometric Properties with Equations, Congruence, Similarity, Right triangles and Trig, Quadrilaterals and Polygons, Probability and Statistics, Circles, Geometric Measurement and Dimension. This class must be taken in conjunction with Construction with Geometry. A scientific calculator is required for this course.	

Pre-Calculus/Trigonometry

Prerequisite: Algebra 2 (Grade 'C' or better)	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: None
This course combines the study of trigonometry, elementary functions, analytical geometry and math analysis topics as preparation for calculus. Topics include the study of complex numbers, polynomial, logarithmic, exponential, rational, right trigonometric and circular functions and their relations, inverses, and graphs, trigonometric identities and equations, solutions of right and oblique triangles, vectors, parametric equations and their graphs, the polar coordinate system, conic sections, and limits. NOTE: This class includes Calculus A topics. A graphing calculator is required for this course.	

AP Pre-Calculus

Prerequisite: Honors Algebra 2 (Grade 'B' or better and teacher recommendation signed Honors Agreement)	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: None
Following the College Board's suggested curriculum designed to parallel college-level precalculus courses, AP Precalculus courses introduce students to mathematical modeling and functions that serve as a foundation for calculus and other college-level mathematics needed for a variety of STEM majors and careers. Topics typically include polynomial & rational functions, exponential and logarithmic functions, trigonometric & polar functions, and functions involving parameters, vectors, and matrices. **Disclaimer: The post-secondary transcript and post-secondary transferability of this course is unknown at this time. There is no guarantee that students who pass the AP exam will receive post-secondary credit in an applicable pathway. A graphing calculator is required for this course.	

AP Statistics (AP Statistics/college credit CU Denver)

Prerequisite: Algebra 2 (Grade "B" or better or currently enrolled in Algebra II Signed AP Agreement)	1.0 credit
Grade(s): 10, 11, 12	Full Year
AP exams of 3 or higher can earn college credit College credit through CU Denver can be earned	Fee: cost of textbook; to be acquired on your own, AP Exam Fee Estimated \$95 Fee: Approximately \$231 in college fees
This course follows the College Board's suggested curriculum designed to parallel college-level statistics courses. AP Statistics courses introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. A graphing calculator is required for this class. In addition, students are responsible for purchasing the textbook for this class: <u>The Practice of Statistics</u> -Yates 5th edition, ISBN# 978-1-4641-5401-0.	

Intermediate Algebra

Prerequisite: Geometry (teacher rec only)	1.0 credit
Grade(s): 12	Full Year
	Fee: None
This course introduces the Algebra 2 Bridge to Curriculum standards along with strengthening previous Algebra 1 and Geometry standards. Mathematical reasoning, modelling, problem solving and communication are developed throughout the following units of study: Reasoning with Functions, Extending Exponential Functions, Understanding Complex Solutions, Exploring Extraneous Solutions, Data Analysis/Probability Trigonometry, and Personal Financial Literacy. A graphing calculator is required for this class. This course does not meet NCAA requirements for college athletics.	

Vocal Music

The overall philosophy of the Vocal Music Program at Columbine is that we believe that ANYONE can learn to sing. Previous experience, while highly valued, is not required. We will teach you to sing. It is also possible to take more than one music class. A student could, theoretically, be in more than one choir class, or be in both band and choir. Administrative approved travel with specific classes is planned either locally or statewide. Costs for class travel are calculated and fees are due separately, in addition to class fees to the finance office. Travel information is provided as it becomes available. Ensemble students are financially responsible for required outfits. All classes are for a full year.



Chorus (Choir – Mixed - Level 1)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester or Year
	Fee: \$25.00 (robe cleaning, music folder, supplemental music packets)
Chorus-Mixed provides the opportunity to sing a variety of choral literature for mixed voices and is designed to develop more advanced vocal techniques and the ability to sing parts. In addition, music reading skills will be developed and a minimum of 4 public evening performances are included. Mixed Chorus is for all incoming freshmen, and 10-12 grade students who have never been in a choir or vocal ensemble before. No Audition is required and no singing alone in front of your peers is required.	

Chorus – Treble (Columbine Silver – Women’s Ensemble - Level 2)

Prerequisite: Audition	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$45.00 (robe cleaning, music folder, district Treble Choir Festival, t-shirt)
Chorus - Treble provides the opportunity to sing a variety of choral literature for treble voices and is designed to develop vocal techniques and the ability to sing parts. In addition, advanced music reading skills will be developed and a minimum of 4 public evening performances and participation in the district Women’s Choir festival will be included. Treble Choir is for all 10-12 grade treble voice singers that have previous choral experience, either here at Columbine, or their previous school. Students must audition (all auditions for Treble and Concert Choir are identical) for enrollment in this Intermediate-Advanced level ensemble.	

Vocal Ensemble Concert Choir (Mixed Choir - Level 3)

Prerequisite: Audition	1.0 credit
Grade(s): 10 (Boys only), 11, and 12	Full Year
	Fee: \$45.00 (robe cleaning, music folder, district Honor Choir, Tenor Bass, Treble Choir Festival, t-shirt)
Vocal Ensembles-Concert is intended to develop vocal techniques and the ability to sing parts in a concert choir. Course goals may include the development of solo singing ability and will emphasize various ensemble literature styles. In addition, advanced music notation and sight singing skills will be developed and various performance opportunities during the year will be included. Concert Choir enrollment is by Audition only, and placement in the ensemble is based on creating a balanced ensemble (20 to 30 treble voiced to be matched with 15-20 changed male voices).	

Vocal Ensemble – Select (Columbine Blue – Mixed – Level 4)

Prerequisite: Audition AND concurrent enrollment in Concert Choir OR Treble Choir.	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$45.00 (Sheet music, supplemental printed materials)
Vocal Ensembles-Select is intended to develop advanced vocal techniques and the ability to sing parts in ensemble or madrigal groups. Course goals may include the development of solo singing ability and may emphasize various ensemble literature styles. In addition, course goals may include the development of solo singing ability and will emphasize various ensemble literature styles. This course is an auditioned ensemble, which will meet regularly with emphasis on high level, challenging musical experiences and will feature multiple performance opportunities, both at school and in the community. Genre focus in this ensemble is Jazz, Musical Theatre, Madrigal, and Pop music. Dual enrollment in Concert Choir or Treble choir is mandatory, unless the Director has given consent directly to the Counseling office. Vocal Ensemble Select is for the serious singer, and a great deal of dedication is required, and expected. In addition, enrollment will be such to create a balanced SATB ensemble.	

INSTRUMENTAL MUSIC

The instrumental music program at Columbine High School offers an active, well-rounded and valuable experience. Student enrollment in each performance ensemble is a full year commitment for curriculum planning and developmental purposes.

- Any student beginning or experienced is welcome to audition twice a year with director and music staff
- Students may rent, if available, a school-owned (Band/Orchestra) instrument for \$62.50/semester
- Each ensemble has a separate fee. Cost covers needs for class materials such as but not limited to: instruments/equipment, music purchases, a portion of travel expenses (music contests/festivals, community performances, food, class shirts.)
- Instrumental music is able to provide quality instruction for students from industry professionals representing local colleges, universities, and music production companies.
- Administrative approved travel with this class is planned either locally or statewide. Costs for class travel are calculated and fees are due separately to band/orchestra boosters, aside from class fees to the finance office. Travel information is provided as it becomes available.
- Students who are enrolled in an instrumental ensemble may also participate in extra-curricular musical events such as pep band, marching band, pit orchestra for school musicals, and audition for Jeffco All-County and CO All-State Ensembles. Students performing should work towards owning/renting an intermediate or professional model instrument. Private study is strongly encouraged.
- Academic Letter opportunities are available through instrumental music.

New for 2024-2025

All new band students (not orchestra) are required to participate in Marching Band. Contact Tyler Vandermeer for questions regarding Marching Band.



Marching Band

Prerequisite:	.5 credit
Grade(s): 9, 10, 11, 12	Fall Semester Only
Outside of school rehearsals required from July-Oct	Fee: \$500 estimated – paid through Instrumental Music Boosters School Fee: \$60 for transportation
Marching Band is intended to develop students' technique for playing brass, woodwind, and percussion instruments and cover appropriate marching band literature styles, primarily for marching performances. Fundraising opportunities available. The Rebel Marching Band is a class AND an extra-curricular activity. Students that participate in the marching band should course enroll in a performance ensemble in the spring semester.	

Jazz Band

Prerequisite: Audition AND concurrent enrollment in Concert Band	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: \$75.00 (Supplemental music packets, instrument specific small repairs, t-shirt)
Jazz/Contemporary Band helps students develop their techniques for playing brass, woodwind, percussion, and string instruments, as well as guitars and keyboards, focusing primarily on contemporary stage band literature styles, such as traditional jazz, Latin, and rock. Jazz improvisation is introduced and developed. Performances include concerts, community events, contests and festivals. Auditions for jazz band are held in early spring. This course welcomes students who have previous musical experience that want to expand their skills. Students in this advanced ensemble are expected to audition for the Jeffco All-County honor groups.	

Orchestra (Concert)

Prerequisite: none	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: \$75.00 (Supplemental music packets, instrument specific small repairs, t-shirt)
Orchestra is designed to develop students' abilities to play brass, woodwind, percussion, and string instruments, covering a variety of string and orchestral literature styles. This is a strings only class and is performance based. Performances occur each season throughout the year on campus and at music festivals/contests. Enrollment is not limited; however auditions scheduled with music director are required for chair placement. This is a class that welcomes beginning music students that wish to learn a secondary instrument or are first year members.	

Orchestra Strings (Chamber)

Prerequisite: Audition	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: \$75.00 (Supplemental music packets, instrument specific small repairs)
Orchestra Strings is designed to develop students' abilities to play string instruments, covering a variety of string and orchestral literature styles. This is a strings only class. This is a strings only class and is performance based. Performances occur each season throughout the year on campus and at music festivals/contests. Enrollment is not limited; however auditions scheduled with music director are required for chair placement. This course welcomes beginning music students that wish to learn a secondary instrument or are first year members. Students in this advanced ensemble are expected to audition for the Jeffco All-County honor groups.	

Concert Band/Symphonic

Prerequisite: None	1.0 credit
Grade(s): 9, 10, 11, and 12	Full Year
	Fee: \$75.00 (Supplemental music packets, instrument specific small repairs, t-shirt)
Symphonic Band is designed to promote more intermediate techniques for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances. Symphonic Band will accommodate beginning/intermediate skill leveled students and prepare them for advanced performances in a traditional concert stage band setting. This course will cover a variety of music fundamentals, literature styles, and techniques. Performances occur each season throughout the year on campus and at music festivals/contests. Enrollment is not limited; however auditions scheduled with music director are required for chair placement. This course also welcomes beginning music students that wish to learn a secondary instrument or are in their first year of music.	

Concert Band/Winds (Ensemble)

Prerequisite: audition	.5 credit
Grade(s): 9, 10, 11, 12	Spring Semester Only
	Fee: \$75.00 (Supplemental music packets, instrument specific small repairs, t-shirt)
Wind Ensemble is designed to promote more advanced techniques for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances. Performances occur each season throughout the year on campus and at music festivals/contests. Enrollment is limited while auditions scheduled with music director are also required for chair placement. This course is rigorous and is recommended to students with previous band experience. Students in this advanced ensemble are expected to audition for the Jeffco All-County honor groups.	

Guitar

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: \$75.00 (Supplemental music packets, instrument specific small repairs, t-shirt) \$25 rental fee if using a school provided instrument
Guitar introduces students to the fundamentals of music and guitar-playing techniques, such as strumming and chords. Guitar is a class designed for beginning guitarists but is available for any interested player regardless of ability level. In addition, reading musical notation and improvisation will also be developed. Limited rental guitars available for \$25 per semester. Acoustic and Classical style guitars only. No electric guitars for class.	

Music Theory

Music Theory (Beginning) – Offered 2025-26

Prerequisite: None	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: \$15 for student packets
Music Theory provides students with an understanding of the fundamentals of music and includes one or more of the following topics: composition, arrangement, analysis, aural development, and sight reading.	
Beginning Music Theory is designed to be an introduction to the concepts of literacy and composition. Music Theory courses extend and build upon students' knowledge of intervals, scales, chords, metric/rhythmic patterns, and the ways they interact in a composition. Musical notation, analysis, composition, and aural skills are important components of the course.	

AP Music Theory – Offered 2024-25

Prerequisite: Beginning Music theory or 3 Years in Band/Orchestra/Choir	1.0 credit
Grade(s): 10, 11, 12	Year
	Fee: Cost of Book (purchase on your own) - \$20.00 (printing and supplemental packets) and AP Exam Fee: Estimated \$95
Music Theory provides students with an understanding of the fundamentals of music and includes one or more of the following topics: composition, arrangement, analysis, aural development, and sight reading.	
AP Music Theory is designed to be the equivalent of a first-year music theory college course as specified by the College Board. AP Music Theory develops students' understanding of musical structure and compositional procedures. Usually intended for students who already possess performance-level skills, AP Music Theory courses extend and build upon students' knowledge of intervals, scales, chords, metric/rhythmic patterns, and the ways they interact in a composition. Musical notation, analysis, composition, and aural skills are important components of the course.	



Physical Education

Welcome to the continuing challenge of good health and physical education. We know that in our offerings you will find a class that will be appealing to you and from which you can benefit.

Our Physical Education Program allows opportunities for students to experience different exercises and activities that give them a well-balanced connection between fitness and health. The goal for this program is to encourage students to explore various methods to ensure lifetime fitness and health. Many of our students find a way to take a physical education class every semester of their high school career.

Some P.E. classes require the purchasing and wearing of the **Columbine High School P.E. shirt at a cost of \$15** (see class description below.) All P.E. students must wear non-marking athletic shoes compatible to our gym floor. Students must supply their own **blue, gray or white shorts** that cover their body, (please have a 6 inch inseam, no spandex or shorts with no inseam).

Students may take more than one PE class per semester only with the approval of the PE Department Manager.

***All physical education classes will meet the graduation requirement for physical education.**

***All physical education classes may include the district mandated fitness components.** These include the pacer test/mile run, push-ups, curl ups, sit and reach and shoulder flexibility. In addition, students will be exposed to health related curriculum skills tests and written tests. Our goal is for students to leave our programs with a better understanding of physical education both physically and cognitively.



Physical Education (Team Sports/Beginning Weight Training)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: \$16, uniform
Physical Education provides students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities. Students develop a personalized fitness plan which includes principles of nutrition. In addition, Physical Education is a combination of beginning weight training and team sports. This course is designed to give students the opportunities to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and team sports activities.	

Team Sports

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: \$16, uniform
Team Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one team sport (such as volleyball, basketball, soccer, and so on). Team Sports is an activity based class with an emphasis on rules, skills, and strategies of team sports (Volleyball, Basketball, Flag Football, Badminton, Softball, Ultimate Frisbee, etc.) Team sports is not intended to be a semester long sports specific course. Students develop a personalized fitness plan which includes principles of nutrition.	

Lifetime Fitness Education (First Aid and CPR Certification)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: \$41 (Certification, Face Shield and Lungs, workbook)
Lifetime Fitness has two components; classroom learning as well as exercise geared for lifetime physical fitness. In the classroom, students acquire the skills, habits and knowledge necessary for lifelong fitness. Topics include the Physical Activity Pyramid, principles of physical fitness and self-management skills. During the exercise component, students will engage in regular physical activity, as well as create and carry out a personalized fitness plan. This course is constructed to give students the opportunity to learn basic skills for first aid and CPR. Students will be able to earn an American Heart Association Certificate upon successful passage of the American Heart Association written and skills test. This course is also designed to teach students the basic components of health and fitness and to also learn and participate in a wide variety of lifetime activities. (NO PE SHIRTS REQUIRED)	

Health Education

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: None
Health Education has two components; classroom learning as well as exercise geared for lifetime fitness. In the classroom, students will apply health skills such as, goal setting, advocacy for self and others, and decision making while increasing their knowledge around health behaviors necessary for maintaining a healthy lifestyle. During the exercise component, students will engage in regular physical activity, as well as create and carry out a personalized fitness plan. This class fulfills the PE graduation requirement. (NO PE SHIRTS REQUIRED)	

Fitness/Conditioning Aerobics (Dance, Yoga, Aerobics, Kickboxing)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: None
Fitness/Conditioning Activity courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness. Students develop a personalized fitness plan which includes principles of nutrition. In addition, this course is designed to allow students the opportunity to develop physical fitness through a variety of FUN activities such as dance, step aerobics, cardio-kickboxing, individual sports, yoga and weight training. This course will focus on students achieving and maintaining a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts and strategies. (NO PE SHIRTS REQUIRED)	

Specific Sports Activities (Female Athletics – Intermediate Weight Training)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: None
Specific Sports Activities helps students develop knowledge, experience, and skills <i>in a single sport or activity</i> (such as basketball, gymnastics, volleyball, track and field, and equestrian events). This course is specifically for female weight training. It is open to all grades and all females whether you are in a sport or not. (NO PE SHIRTS REQUIRED)	

Fitness/Conditioning Aerobics

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: None
Fitness/Conditioning Activity courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness. Students develop a personalized fitness plan which includes principles of nutrition. (NO PE SHIRTS REQUIRED)	

Weight Training Beg (Grade 9, 10 football only)

Prerequisite: Physical Education (Team Sports/Beginning Weight Training)	0.5 credit
Grade(s): 9, 10	Semester
Course code 08009G05016	Fee: None
Beginning Weight Training provides students with introductory knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning. Anatomy and principles of conditioning are addressed. Students develop a personalized weight training program which includes principles of nutrition. (NO PE SHIRTS REQUIRED)	

Weight Training Inter (All students who have completed the Physical Education pre-requisite)

Prerequisite: Physical Education	0.5 credit
Grade(s): 9, 10, 11, 12	Year
	Fee: None
Intermediate Weight Training helps students to go beyond the normal work-out. Students are expected to have completed the basic Weight Training class and can demonstrate knowledge of the basics of resistance training techniques and design an individual weight training program which includes principles of nutrition. Students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning. Weight Training helps students develop knowledge and skills with free weights, emphasizing safety and proper body positioning; they may include other components such as anatomy, conditioning and nutrition	

Weight Training Advanced (Grade 11, 12 Football Players)

Prerequisite: Weight Training/Sports	0.5 credit
Grade(s): 11, 12	Semester
	Fee: None
Advanced Weight Training uses advanced skills and weight training techniques. Students develop a personalized weight training program which includes principles of nutrition.	

Publications

The Publications Department at Columbine High School is dedicated to providing students with opportunities to learn and implement good journalistic practices while developing into ethical scholastic journalists. We value exercising our constitutional rights and freedoms while exploring the changing world of multi-media journalism. Publications students will publish real-world products utilized by the entire Columbine community: the school's website, Rebel News Network, The Rebellion, and Rebelations. Students will learn how to use industry-standard publications programs Adobe InDesign and Photoshop, gain experience with digital photography using Canon Rebel SLR cameras, and work with professional-grade video production programs. Publications students need to be self-motivated, reliable, and passionate about creating publications that are representative of our students, our school, and our community. We are the voice of Columbine.



Class	Grade Level	Course Length
Intro to Communications	9, 10, 11, 12	Full Year
Social Media	10, 11, 12	Full Year
Journalism Beginning: Yearbook	9,10,11, 12	Full Year
Journalism Intermediate: Yearbook	10, 11, 12	Full Year
Journalism Advanced: Yearbook	11, 12	Full Year
Filmmaking: Rebel News Network (RNN) – See Photo/Video (pg. 14)	9, 10, 11, 12	Full Year

Intro to Communications (Formerly Online Media I: Newspaper)

Prerequisite: None	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: \$20.00 (class supplies, printing)
Introduction to Communication courses enable students to understand and critically evaluate the role of media in society. Course content typically includes investigation of visual images, printed material, and audio segments as tools of information, entertainment, and communication to influence opinion; improvement of presentation and evaluative skills in relation to mass media; recognition of various techniques for delivery of a particular message; and, in some cases, creation of a media product. The course may concentrate on a particular medium. Students demonstrate their understanding of a variety of programs and occupations in online media using digital tools that are widely available in professional media work. Focus is on producing content for online consumer-oriented platforms. Instruction will be paired with hands-on lab experiences in community reporting, both verbal and visual.	

Social Media (Formerly Online Media II: Newspaper)

Prerequisite: Intro to Communications	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$20.00 (class supplies, printing)
Social Media courses expose students to various types of social media and how social media has influenced society. These courses emphasize the forms, functions, regulations, implications, and utilization of social media. Students in this course should also develop their leadership skills while expanding on various modes of reporting and creating online media for specific audiences and online consumer-oriented platforms. Instruction will be paired with hands-on lab experiences.	

Journalism Beginning (Yearbook)

Prerequisite: None	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: \$20.00 (class supplies, gear, SD cards)
Journalism courses (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism courses introduce students to the concepts of newsworthiness and press responsibility; develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. In Journalism Beginning students focus on reporting and will demonstrate understanding of how to gather information that may be published in print or online media. Instruction will be paired with hands-on lab experiences in community reporting, both verbal and visual. Photography, photojournalism, and digital technology skills may be included.	

Journalism Intermediate (Yearbook)

Prerequisite: None	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$20.00 (class supplies, gear, SD cards)
Journalism Intermediate builds on the introduction of skills in Journalism Beginning or Middle Level courses. This course (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism Intermediate continues students exploration of newsworthiness and press responsibility; further develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. Journalism Inter students focus on editing where students develop leadership skills while expanding on various modes of reporting and creating presentations in multiple platforms for specific audiences. Instruction will be paired with hands-on lab experiences.	

Journalism Advanced (Yearbook)

Prerequisite: None	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$20.00 (class supplies, gear, SD cards)
Journalism Advanced is typically associated with student leaders of a school newspaper, yearbook, or literary magazine. This courses will emphasize writing style and technique as well as production values and organization. In Journalism Advanced students demonstrate their knowledge and skill by leading and mentoring peers in: creating items that are newsworthy; upholding high standards and press responsibility; further developing skills in writing and editing stories, headlines, and captions; and support the principles of production design, layout, and printing. Journalism Advanced students focus on editing and newsroom management. These students may create a portfolio which they can use towards a CTE Capstone.	



Science

The vision of Columbine High School Science Department is that EVERY student be exposed to all three science content areas through a comprehensive and rigorous curriculum that challenges and meets the needs of each individual. In addition, all science classes at Columbine will help to develop a student's problem solving, critical thinking, scientific literacy, and collaboration and communication skills necessary to be successful in whatever they choose to do after high school.

According to the Colorado Department of Education, a student's science academic career - preschool through high school - should 'prepare them for life, college and career' and includes academic exposure to Physical Science, Life Science and Earth Systems Science. The chart below illustrates the classes offered at Columbine High School that meet those standards.

Science Pathways at Columbine High School

Discipline	9th Grade	10th Grade	11th Grade	12 Grade
General Science Pathway				
Science Courses	Biology	Chemistry	Physics	Environmental Science
Advance Science Pathway				
Science Courses	Honors Biology	Honors Chemistry	AP Physics 1	AP Environmental
Elective Courses			AP Chemistry	AP Biology
Engineering Pathway				
Science Courses	Biology (or Honors Bio)	Chemistry	Physics	Digital Electronics*
Elective Courses	Intro to Engineering*	Principles of Engineering*	Engineering Design & Development*	
Math Courses	Algebra I*	Geometry in Construction*	Algebra II*	Calculus*
Advanced Engineering Pathway				
Science Courses	Biology (or Honors Biology)	Honors Chemistry	AP Physics 1	AP Physics C
Elective Courses	Intro to Engineering*	Principles of Engineering*	AP Chemistry and Engineering Design & Development *	Digital Electronics*

Environmental Sciences Pathway				
Science Courses	Biology	Chemistry	Natural Resources (includes Alg II credit)	Environmental Science
Elective Courses			Astronomy	Zoology Marine Biology
Advanced Environmental Sciences Pathway				
Science Courses	Honors Biology	Honors Chemistry	Natural Resources (includes Alg II credit)	AP Environmental Science
Elective Courses			AP Chemistry	AP Biology
Discipline	9th Grade	10th Grade	11th Grade	12 Grade
Pre-med Pathway (designed for future Doctors, Nurses, and Veterinarians)				
Science Courses	Honors Biology	Honors Chemistry	AP Physics 1	Honors Anatomy and Physiology
Elective Courses			AP Chemistry	AP Biology
Health Sciences Pathway				
Science Courses	Biology	Chemistry	Anatomy & Physiology	(Will begin 25-26)
Elective Courses			Culinary Nutrition* (semester)	
CSI and Criminal Justices Pathway				
Science Courses	Biology	Chemistry	Anatomy & Physiology	Forensics (year long)
Elective Courses			Physics	Psychology (sem)* or AP Psychology (year)*

*Do not count for science credit but do support the listed pathway

Biology

Prerequisite: None	1.0 credit
Grade(s): 9	Full Year
	Fee: \$15.00 (lab supplies)
<p>Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction.</p> <p>**This course may be applied towards a STEM Endorsed Diploma</p>	

Biology Honors

Prerequisite: Signed Honors Agreement	1.0 credit
Grade(s): 9	Full Year
	Fee: \$15.00 (lab supplies)
<p>Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. **This course may be applied towards a STEM Endorsed Diploma</p>	

AP Biology

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 11, 12	Full Year
AP exams of 3 or higher can earn college credit	Fee: \$10.00 (lab supplies) AP Exam Fee Estimated \$95
<p>Adhering to the curricula recommended by the College Board and designed to parallel college level introductory biology courses, AP Biology stresses basic facts and their synthesis into major biological concepts and themes. These courses cover three general areas: molecules and cells (including biological chemistry and energy transformation); genetics and evolution; and organisms and populations (i.e., taxonomy, plants, animals, and ecology). AP Biology courses include college-level laboratory experiments. Students will need to obtain a lab notebook and two AP Biology Workbooks (approximately \$55) Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.</p>	

Chemistry

Prerequisite: None	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$20 (lab supplies)
<p>Chemistry involves studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. **This course may be applied towards a STEM Endorsed Diploma</p>	

Chemistry Honors

Prerequisite: Algebra 1, Signed Honors Agreement	1.0 credit
Grade(s): 10, 11, 12	Full Year
Dual Enrollment available with CU Denver	Fee: \$20.00 (lab supplies)
<p>Chemistry involves studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. The honors course prepares students for advanced coursework and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. **This course may be applied towards a STEM Endorsed Diploma</p> <p>Registration for college credit is optional; the cost is approximately \$310 for 4 credits (lecture and lab courses.) College credit earned via this course is guaranteed by state law to be transferable to any public college or university in Colorado. Registration and payment for the course are due second semester to CU Denver. The grade given to CU is the average both semester's grades.</p>	

Conceptual Chemistry

Prerequisite: None	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$20.00 (lab supplies)
Conceptual Chemistry is a practical, non-quantitative chemistry course designed for students who desire an understanding of chemical concepts and applications. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. **This course may be applied towards a STEM Endorsed Diploma	

AP Chemistry

Prerequisite: Completion or co-enrollment in Algebra II, Signed AP Agreement	1.0 credit
Grade(s): 10, 11, 12	Full Year
AP exams of 3 or higher can earn college credit College credit through CU Denver can be earned	Fee: \$20 (Lab notebook/Goggles/Consumable food in labs) AP Exam Fee Estimated \$95
Following the curricula recommended by the College Board, AP Chemistry courses usually follow high school chemistry and second-year algebra. Concepts covered may include the structure of matter; bonding of intermolecular forces; chemical reactions; kinetics; thermodynamics; and chemical equilibrium. For each concept, these courses emphasize the development of scientific inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. AP Chemistry courses include college-level laboratory investigations. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade. Registration for college credit is optional; the cost is approximately \$310 for 4 credits (first semester lecture and lab courses) and \$385 for 5 additional credits (second semester lecture and lab courses.) College credit earned via this course is guaranteed by state law to be transferable to any public college or university in Colorado.	

Physics

Prerequisite: Concurrent enrollment in Algebra II	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$21.00 (lab supplies, Web Assign software)
Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. **This course may be applied towards a STEM Endorsed Diploma	

AP Physics 1

Prerequisite: Alg. II, Signed AP Agreement	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: \$20 (lab supplies) AP Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level Physics courses, AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. Students will need to obtain an electronic version of the textbook for the class (approximately \$60) Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

AP Physics C

Prerequisite: Physics or AP Physics 1 and concurrent enrollment or credit in Calculus BC, Signed AP Agreement	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$10 (lab supplies) AP Exam Fee Estimated \$95
Designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C courses primarily focus on 1) mechanics and 2) electricity and magnetism, with approximately equal emphasis on these two areas. AP Physics C courses are more intensive and analytical than AP Physics B courses and require the use of calculus to solve the problems posed. Students will need to obtain an electronic version of the textbook for the class (approximately \$60) Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

AP Environmental Science

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$25 (lab/project supplies) AP Exam Fee Estimated \$95
<p>AP Environmental Science is designed by the College Board to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems (both natural and human made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems, and the development of practices that will ensure sustainable systems.</p> <p>Students will need to obtain a textbook.</p> <p>Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade</p>	

Environmental Science

Prerequisite: None	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$10 (lab/project supplies)
<p>"Environmental Science examines the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. **This course may be applied towards a STEM Endorsed Diploma"</p>	

Anatomy & Physiology

Prerequisite: None	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$20 (lab/project supplies)
<p>Anatomy and Physiology provides a deeper exploration of the human body and biological systems in greater detail. Students expand their knowledge of the body and terminology/phonetic pronunciations used to describe and locate body parts as well as an overall review of human development and body processes. This course includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the healthcare work environment, additionally, it highlights the latest practices and protocols. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. Dissections are required.</p> <p>**This course may be applied towards a STEM Endorsed Diploma</p>	

Honors Anatomy

Prerequisite: Signed Honors Agreement	1.0 credit
Grade(s): 12, 11 ⁺ graders with instructor approval	Full Year
Dissection participation is MANDATORY	Fee: \$20 (lab/project supplies)
<p>"Anatomy presents an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. Dissections are required.</p> <p>**This course may be applied towards a STEM Endorsed Diploma"</p>	

Digital Electronics

Prerequisite: Completion or co-enrollment in physics and Algebra II	1.0 credit (This class offers an elective credit and not a science credit.)
Grade(s): 11, 12	Full Year
	Fee: \$35 (lab and project materials, including Arduino Programming)
<p>Digital Electronics is a course of study in applied digital logic. Students will be introduced to digital circuits found in video games, switches, digital cameras, calculators, and thousands of other devices. Students will study the application of digital logic and digital devices that are used to control automatic equipment. The course utilizes state of the art, virtual electronic circuitry design software. This course is similar to a first semester college course and is an important course of study for a student exploring a career in engineering or engineering technology.</p>	

Astronomy

Prerequisite: None	0.5 credit
Grade(s): 11, 12	Semester
	Fee: \$5.00 (course notebook)
<p>"Astronomy offers students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. These courses usually introduce and use astronomic instruments and typically explore theories regarding the origin and evolution of the universe, space, and time. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction.</p> <p>**This course may be applied towards a STEM Endorsed Diploma"</p>	

Wildlife & Fish Management

Prerequisite: Chemistry or Honors Chemistry	.5 credit
Grade(s): 11, 12	Semester
	Fee: \$10
Wildlife and Fish Management expands student learning to the principals of wildlife management. Students will gain knowledge in career development, leadership, personal development, communications, ecology, biology, zoology and trends in wildlife management in relation to outdoor recreation.	

Intro to Forensic Science

Prerequisite: None	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: \$15 (lab supplies)
Introduction to Forensics examines the philosophical considerations of the integration of forensic science disciplines with criminal investigations. The course encompasses and provides an overview of physical evidence and examines the major forensic sub disciplines of pathology, Health Science, Criminal Justice, and Public Safety Criminal Justice & Public Safety Cluster Course Descriptions 139 Page toxicology, deontology, anthropology, art, firearms and tool marks, criminalistics, serology, and questioned documents. The second semester of this two-semester course continues to examine the philosophical considerations of the integration of forensic science disciplines with criminal investigations. The course encompasses and provides an overview of physical evidence and examines the major forensic sub disciplines of pathology, toxicology, deontology, anthropology, art, firearms and tool marks, criminalistics, serology, and questioned documents. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. **This course may be applied towards a STEM Endorsed Diploma	

Marine Biology

Prerequisite: None	0.5 credit
Grade(s): 11, 12	Semester
Dissection participation is MANDATORY	Fee: \$5 (lab/project supplies)
A Marine Biology course is a laboratory-based exploration of the oceans and the marine ecosystems found in them. They explore the biology of the marine organisms, topography, chemistry, diversity and resources found in the ocean. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. Dissections are required. **This course may be applied towards a STEM Endorsed Diploma"	

Zoology

Prerequisite: None	0.5 credit
Grade(s): 11, 12	Semester
Dissection participation is MANDATORY	Fee: \$20 (lab supplies)
The Zoology course provides students with and understanding of animals, the niche they occupy in their environment or habitat, their life-cycles, and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities. Science courses are required to follow 2020 Colorado Academic Standards which ensure equal emphasis on Science and Engineering Practices, Cross Cutting concepts, and Disciplinary Core Ideas. Students will experience an anchored inquiry model of instruction. Dissections are required.	



Social Studies

Pathways Chart – Required Courses

	9	10	11	12
Standard Pathway	U.S. Govt & Civics (sem) and World Geography (sem)	Modern U.S. History	World History	Economics
Honors/AP Pathway	U.S. Govt Honors (sem) and World Geography (sem) OR Honors U.S. Government (sem) and AP Human Geography (full year)	AP U.S. History	AP World History	AP Economics



U.S. Govt. & Civics

Prerequisite: None	0.5 credit
Grade(s): 9	One semester
	Fee: none
<p>U.S. Government and Civics is a semester-long course focused on purposes, roles, and limitations of the structures and functions of government as well as the role of civic participation on behalf of citizens. Students will analyze the role of founding principles and documents as they have and continue to apply to the functioning of U.S. government. Additionally, students will research and formulate positions on local, state, and national issues or policies to participate in a civil society including identifying the appropriate level of government to address specific concerns and exploring the role of individuals in influencing policy such as contacting elected officials, participation in civic organizations, and voting. Following Colorado statute (C.R.S. 22-1-104.a); this course meets the State graduation requirement.</p>	

U.S. Govt. & Civics Honors

Prerequisite: Signed Honors Agreement	0.5 credit
Grade(s): 9	One semester
	Fee: none
<p>U.S. Government and Civics is a semester-long course focused on purposes, roles, and limitations of the structures and functions of government as well as the role of civic participation on behalf of citizens. Students will analyze the role of founding principles and documents as they have and continue to apply to the functioning of U.S. government. Additionally, students will research and formulate positions on local, state, and national issues or policies to participate in a civil society including identifying the appropriate level of government to address specific concerns and exploring the role of individuals in influencing policy such as contacting elected officials, participation in civic organizations, and voting. Following Colorado statute (C.R.S. 22-1-104.a); this course meets the State graduation requirement. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.</p>	

World Geography

Prerequisite: None	0.5 credit
Grade(s): 9	One semester
	Fee: none
<p>World Geography is a semester-long course focused on the relationships among people, places, and environments that result in geographic patterns on the earth and examines the basic concepts and processes that shape human geography. Global and local patterns of population, migration, environmental resources, globalization, as well as cooperation and conflict are surveyed and the factors influencing these patterns are discussed. Students will use geographic tools as well as primary and secondary resources to analyze Earth's human systems and physical features to investigate and evaluate relationships between them.</p>	

AP Human Geography (Freshmen who take this class will also need to take a semester of U.S. Government.)

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: Cost of book (must purchase on your own) approx. \$120 AP Exam Fee: Estimated \$95
<p>Following the College Board's suggested curriculum designed to parallel college-level Human Geography courses, AP Human Geography introduces students to the systematic study of patterns and processes that have shaped the ways in which humans understand, use, and alter the earth's surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences and also learn about the methods and tools geographers use in their science and practice. Upon successful completion of the Advanced Placement Exam at the end of the school year, the student may receive college credit. Students must remain enrolled for the entire semester to receive AP credit and the corresponding weighted grade.</p>	

Modern U.S. History

Prerequisite: None	1.0 credit
Grade(s): 10	Full Year
	Fee: none
Modern U.S. History is a year-long course that provides students with an understanding of key concepts of continuity and change, cause and effect, complexity, unity and diversity, and significant ideas in the United States from Reconstruction to the present. Students will use the historical method of inquiry to formulate compelling questions, evaluate primary and secondary sources, analyze and interpret data, and argue for an interpretation defended by textual evidence. Following Colorado statute (C.R.S. 22-1-104.a); this course will include the history, culture, and social contributions of American minorities.	

AP U.S. History

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 10	Full Year
AP exams of 3 or higher can earn college credit	Fee: Cost of book (must purchase on your own) approx. \$120 AP Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History provides students with the analytical skills and factual knowledge necessary to address critically problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past. Upon successful completion of the Advanced Placement Exam at the end of the school year, the student may receive college credit. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

Modern World History

Prerequisite: None	1.0 credit
Grade(s): 11	Full Year
	Fee: none
World History is a year-long course that provides students with an understanding of key concepts of continuity and change, cause and effect, complexity, unity and diversity, and significant ideas throughout the world from the Renaissance to the present. Students will use the historical method of inquiry to formulate compelling questions, evaluate primary and secondary sources, analyze and interpret data, and argue for an interpretation defended by textual evidence. Following Colorado statute (C.R.S. 22-1-104.7); this course will include Holocaust and Genocide studies including the Armenian Genocide.	

AP World History

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 11	Full Year
AP exams of 3 or higher can earn college credit	Fee: Cost of book (must purchase on your own) approx. \$120 AP Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level World History courses, AP World History examines world history from 8000 BCE to 1200 CE with the aim of helping students develop a greater understanding of the evolution of global processes and contacts and how different human societies have interacted. This course highlights the nature of continuity and change over time in an international context and explores cause and effect relationships. Upon successful completion of the Advanced Placement Exam at the end of the school year, the student may receive college credit. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

Economics

Prerequisite: None	0.5 credit
Grade(s): 12	One semester
	Fee: none
Economics is a semester-long course in which students will receive an overview of economics as well as personal financial literacy. The overview of economics will address principles of both microeconomics and macroeconomics including topics such as economic systems, market structures, government policies, and globalization and international trade. Personal financial literacy will include learning about individual earning capability, personal investment objectives, consumer skills, and financial risk management strategies. Following Colorado statute (C.R.S. 22-32-135); this course will include content relating to how to assess the affordability of and budget for different options for obtaining a postsecondary degree or credential and how to pay for higher education.	

AP Microeconomics (Semester 1) AP Macroeconomics (Semester 2)

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 12	Full Year
	Fee: none AP Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level microeconomics, AP Microeconomics courses provide students with a thorough understanding of the principles of economics that apply to the functions of individual decision makers (both consumers and producers). They place primary emphasis on the nature and functions of product markets, while also including a study of factor markets and the role of government in the economy. Following the College Board's suggested curriculum designed to parallel college-level macroeconomics, AP Macroeconomics courses provide students with a thorough understanding of the principles of economics that apply to an economic system as a whole. They place particular emphasis on the study of national income and price determination and developing students' familiarity with economic performance measures, economic growth, and international economics. Upon successful completion of the Advanced Placement Exams at the end of the school year, the student may receive college credit. Students must remain enrolled for the entire school year to receive AP credit and the corresponding weighted grade.	

Social Studies electives may be taken in addition to the above required grade level courses

Elective Class	Grade Level	Course Length
AP Human Geography	9, 10, 11, 12	Full Year
AP U.S. Govt. and Politics	10, 11, 12	Semester
AP Psychology	11, 12	Full Year
Psychology	11, 12	Semester
Performance Psychology	11, 12	Semester
School Orientation	10, 11, 12	Semester
Sociology	12	Semester
Particular Topics in U.S. History	9, 10, 11, 12	Semester

AP Human Geography

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full Year
	Fee: Cost of book (must purchase on your own) approx. \$120 AP Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level Human Geography courses, AP Human Geography introduces students to the systematic study of patterns and processes that have shaped the ways in which humans understand, use, and alter the earth's surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences and also learn about the methods and tools geographers use in their science and practice. Upon successful completion of the Advanced Placement Exam at the end of the school year, the student may receive college credit. Students must remain enrolled for the entire semester to receive AP credit and the corresponding weighted grade.	

AP U.S. Govt. and Politics

Prerequisite: Signed Honors Agreement	1.0 credit
Grade(s): 10, 11, 12	Full Year
	Fee: Cost of book (must purchase on your own) approx. \$120 AP Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel college-level U.S. Government and Politics courses, this course provides students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. The course generally covers the constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, and civil rights and liberties.	

AP Psychology

Prerequisite: Signed AP Agreement	1.0 credit
Grade(s): 11, 12	Full Year
AP exams of 3 or higher can earn college credit	Fee: Cost of book (must purchase on your own) approx. \$120 AP Exam Fee: Estimated \$95
Following the College Board's suggested curriculum designed to parallel a college-level psychology course, AP Psychology courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, expose students to each major subfield within psychology, and enable students to examine the methods that psychologists use in their science and practice. Upon successful completion of the Advanced Placement Exam at the end of the school year, the student may receive college credit. Students must remain enrolled for the entire semester to receive AP credit and the corresponding weighted grade.	

Psychology

Prerequisite: None	0.5 credit
Grade(s): 11, 12	One semester
	Fee: none
Psychology introduces students to the study of individual human behavior. Course content typically includes, but is not limited to an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.	

Performance Psychology

Prerequisite: None	0.5 credit
Grade(s): 10, 11, 12	One semester
	Fee: none
Performance Psychology will explore performance from a psychological perspective in diverse areas such as academics, sports, creative pursuits, work performance, and leadership. Topics to be considered: various theories pertaining to motivation, the role of emotion and personality on performance, stress management, optimal levels of arousal for performance tasks, the effect of cultural values and expectations, and other psychological variables that influence performance. Both the benefits of optimal performance and maladaptive responses to failure and success will be explored and interventions considered. Students will investigate and practice psychological techniques which can enhance performance. Students will learn about conducting research including gathering and analyzing data.	

Mentorship – Rebel Way

Prerequisite: None	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: none
School Orientation courses provide students with an introduction to the culture of their school so that they understand staff expectations and the school's structure and conventions. These courses may vary widely according to the philosophy, aims, and methods of each school. This course counts as general elective credit, not Social Studies credit.	

Sociology

Prerequisite: None	0.5 credit
Grade(s): 12	One semester
	Fee: none
Sociology introduces students to the study of human behavior in society. The course provides an overview of sociology, generally including, but not limited to topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.	

Particular Topics in U.S. History: History of Social Movements and Music

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	One semester
	Fee: none
This course examines a particular topic in U.S. History, such as particular time periods in the history of the United States, or they may focus on the history of particular U.S. regions rather than provide an overview of the subject.	
Specifically, this class will explore the history of American social movements as expressed and reflected in music. Students investigate the crossroads of social movements and music by studying historical themes such as: uprisings and rebellions, prosperity, oppression, protest, civil rights movements and globalization as well as political, social, and economic inequalities. Paralleled musical movements and periods will include: jazz, blues, swing, rock and roll, soul, folk, country, punk, rap, metal, and others. Students will analyze the intersection of human experience and artistic expression to better understand the complex history of "American Culture" as told through music.	



Technical Education

Woodworking Technology (Beginning)

Prerequisite: None	0.5 credit
Grade(s): 9, 10, 11, 12	Semester
	Fee: \$65.00 (Materials for projects)
Woodworking Technology provides an overview of the planning, design, layout, and technical drawing interpretation for practical use in woodworking, cabinetmaking, and mill working. Different cabinet and furniture styles used, various wood products and materials, and proper tool selection may also be covered. Students will be introduced to the different construction processes in the cabinetmaking, furniture making, and millwork industries. Students will learn about measurement, layout, shop drawings and cutting lists. They will gain a basic understanding of the various kinds of materials used in the industry. Students will learn to use selected woodworking tools and machinery. Correct and safe use of tools and equipment is emphasized. The construction of several projects will develop student's woodworking skills.	



Woodworking Technology II (Intermediate)

Prerequisite: Woodworking Technology I	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: \$65.00 (Materials for projects)
In Woodworking Technology II, students will expand their knowledge of workshop and tool safety, joinery techniques, project design, shop maintenance, power tool and hand tool use and wood theory. There will be an emphasis on craftsmanship and on joinery skills, attention to detail & elements of design.	

Woodworking Technology III (Advanced)

Prerequisite: Woodworking Technology II	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: \$65.00 (Materials for projects)
Woodworking Technology III provides continuing instruction in woodworking with a blend of historic and modern technology skills. This course includes in-depth instruction of hand tools, power tools, custom made tools, advanced woodworking techniques, drafting and wood science.	

Principles of Construction

Prerequisite: None	0.5 or 1.0 credit
Grade(s): 11, 12	Semester or Year
	Fee: \$25 (Materials for projects)
Principles of Construction is a foundational course in the Architecture & Construction cluster covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts. Standards in this course also include an overview of the construction industry and an introduction to building systems and materials.	

Algebra I with AMPED (Algebra in Manufacturing Processes, Entrepreneurship and Design)

Prerequisite: Pre-Algebra, Teacher Signature on registration card	1.0 credit
Grade(s): 9	Full Year
	Fee: none
The Algebra 1 with AMPED (Algebra 1 in Manufacturing Processes, Entrepreneurship and Design) course follows Jeffco Algebra Curriculum, meets CTE standards for the Design and Pre-Manufacturing Pathway and must be taught in conjunction with AMPED. Both teachers are instructors in both classes so that students experience the connections between Algebra and Manufacturing. A scientific calculator is required for this course. This is a contextual learning class that double blocks Algebra I and Entrepreneurship. This class is appropriate for all students that have passed pre-algebra and are ready for Algebra I. Students must be enrolled in Algebra I with AMPED and the corresponding elective class listed under the Business section.	

Construction with Geometry

Prerequisite: Successful completion of Algebra 1 AND Concurrent enrollment in both Construction with Geometry (technical elective class) AND Geometry with Construction (geometry math class)	1.0 credit
Grade(s): 9, 10	Year
	Fee: \$80.00 (Safety Equipment, t-shirt, building materials, OSHA Training)
This course meets CTE standards for the Design and Pre-Construction Pathway and must be taught in conjunction with the Geometry in Construction course. Both teachers are instructors in both classes so that students experience the connections between construction and geometry.	

World Language



French I

Prerequisite: None. Students who have passed French 1 with a C or better at another school should NOT take this class.	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
Designed to introduce students to French language and culture, French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is introduced through the art, literature, customs, and history of the French-speaking people.	

French II

Prerequisite: French 1 (Grade 'C' or better) or teacher rec. Students who have passed French 2 with a C or better at another school should NOT take this class.	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
French II courses build upon skills developed in French I, extending students' ability to understand and express themselves in French and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of French-speaking people to deepen their understanding of the culture(s).	

French II Honors

Prerequisite: French 1 Honors or teacher recommendation, Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
French II courses build upon skills developed in French I, extending students' ability to understand and express themselves in French and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of French-speaking people to deepen their understanding of the culture(s). The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.	

French III

Prerequisite: French 2 (Grade 'C' or better) or teacher rec.	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
French III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.	

French III Honors

Prerequisite: French 2 Honors or teacher rec. Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
French III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.	

French IV and IV Honors

Prerequisite: French 3 (Grade 'C' or better) or teacher rec., Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
Concurrent Enrollment available with ACC	Fee: \$15 for online curriculum access (Voces)
French IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the French language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.	

French V

Prerequisite: French IV (Grade 'C' or better) or teacher rec., Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
French V courses extend students' facility with the language so that they are able to understand, initiate, and sustain general conversations on topics beyond basic survival needs. Reading and writing tasks will usually include all normal verb tenses (present, past, and future).	

AP French Language and Culture

Prerequisite: French 4 (Grade 'C' or better) or teacher rec., Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$30.00 (workbook/readers/AP French workbook, if not already purchased) AP Exam Fee: Estimated \$95
Designed to parallel third-year college-level courses in French Composition and Conversation, AP French Language courses build upon prior knowledge and develop students' ability to understand others and express themselves (in French) accurately, coherently, and fluently. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films and television productions, and so on.	

German I

Prerequisite: None	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$20.00 (workbook/readers)
Designed to introduce students to German language and culture, German I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. German culture is introduced through the art, literature, customs, and history of the German-speaking people.	

German II

Prerequisite: German 1 (Grade 'C' or better) or teacher rec.	1.0 credit
Grade(s): 10, 11, 12	Full year
	Fee: \$20.00 (workbook/readers/AATG exam)
German II courses build upon skills developed in German I, extending students' ability to understand and express themselves in German and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students continue to explore the customs, history, and art forms of German-speaking people to deepen their understanding of the culture(s).	

German III

Prerequisite: German 2 (Grade 'C' or better) or teacher rec.	1.0 credit
Grade(s): 10, 11, 12	Full year
	Fee: \$20.00 (workbook/readers/AATG exam)
German III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.	

German IV

Prerequisite: German 3 (Grade 'C' or better) or teacher rec.	1.0 credit
Grade(s): 10, 11, 12	Full year
	Fee: \$20.00 (workbook/readers/AATG exam)
German IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the German language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.	

Spanish I

Prerequisite: None. Students who have passed Spanish 1 with a C or better at another school should NOT take this class.	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.	

Spanish II

Prerequisite: Spanish 1 (Grade 'C' or better) or teacher rec. Students who have passed Spanish 2 with a C or better at another school should NOT take this class.	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).	

Spanish II Honors

Prerequisite: Spanish 1 Honors or teacher recommendation, Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s). The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.	

Spanish III

Prerequisite: Spanish 2 (Grade 'C' or better) or teacher rec.	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. Spanish III will integrate vocabulary and language skills necessary for today's workplace where possible.	

Spanish III Honors

Prerequisite: Spanish 2 Honors or teacher rec. Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
	Fee: \$15 for online curriculum access (Voces)
Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.	

Spanish IV

Prerequisite: Spanish 3 (Grade 'C' or better) or teacher rec., Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
Concurrent Enrollment available with ACC	Fee: \$15 for online curriculum access (Voces)
Spanish IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.	

Spanish IV Honors

Prerequisite: Spanish 3 (Grade 'C' or better) or teacher rec., Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
Concurrent Enrollment available with ACC	Fee: \$15 for online curriculum access (Voces)
Spanish IV Honors engages students in a highly rigorous curriculum which emphasizes cognitive skills in interpersonal, interpretive and presentational communication. The honors course aligns with and thoroughly extends the curriculum of Spanish 4; however, added rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments and more complex materials.. The honors course prepares students for AP or other types of advanced course work and engages students in enrichment opportunities. Higher level critical and creative thinking skills are emphasized throughout the honors course. Students will be expected to speak exclusively in Spanish and will reach an intermediate-mid to intermediate-high proficiency level.	

AP Spanish Language and Culture

Prerequisite: Spanish 4 (Grade 'C' or better) or teacher rec., Signed Honors Agreement	1.0 credit
Grade(s): 9, 10, 11, 12	Full year
AP exams of 3 or higher can earn college credit	Fee: \$35.00 (AP Spanish Barron's workbook, if not already purchased) AP Exam Fee: Estimated \$95
Designed by the College Board to parallel third-year college-level courses in Spanish Composition and Conversation, AP Spanish Language courses build upon prior knowledge and develop students' ability to understand others and express themselves (in Spanish) accurately, coherently, and fluently in both formal and informal situations. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films and television productions, and so on.	



Teacher Assistants

For 0.25 credit/semester: Students may work as an assistant with a teacher of their choice. Students must receive teacher approval noted by the teacher's signature on the registration card.

For 0.5 credit/semester: Students may work in the Main Office, Counseling Office, Post Grad Center, Attendance Office, Library (LMC), or Technology Center. These assistant positions must be pre-approved by the staff person in charge of student assistants in the area desired. Students must have that person's signature on the registration card.

Students may not have more than one student assistant position during a semester.



Guidance (Counseling Office) Aide

Prerequisite: Registrar/Counselor approval and signature	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: None
Guidance Aide courses provide students with the opportunity to work in the campus guidance office. Duties may include typing, filing, record-keeping, assisting students, answering the telephone, and duplicating, among others. Students may also act as guides to new students. These courses emphasize appropriate work attitudes, human relations, and proper office procedures.	

LMC Aide

Prerequisite: Teacher Librarian approval and signature	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: None
Library/AVC Aide courses provide students with the opportunity to work in the library or in media and audiovisual centers. Duties may include collecting, distributing, and categorizing materials; operating audiovisual equipment; assisting students and teachers; and performing clerical duties. Students typically gain experience in library science and/or media and audiovisual technology. As it is with a real job, attendance and being on time are necessary to pass this course.	

Aide: Main Office

Prerequisite: Registrar/Counselor approval and signature	0.5 credit
Grade(s): 10, 11, 12	Semester
	Fee: None
Office Aide courses provide students with the opportunity to work in campus offices, developing skills related to clerical office work. Duties may include typing, filing, record-keeping, receiving visitors, answering the telephone, and duplicating, among others. These courses emphasize appropriate work attitudes, human relations, and proper office procedures. Attendance and participation is a key factor to passing the class. On the 4 th absence (per 6 week period), a student will receive a failing grade. This includes excused or unexcused absences. Students are able to make-up absences during the same 6 week grading period.	

Peer Mentoring (Peer Counseling)

Prerequisite: Application and Interview Process	1.0 credit
Grade(s): 11, 12	Full Year
	Fee: None
Students will work as peer-counselors one period per day. Students in this class will tutor (in an area of strength) students in the learning lab. Tutoring needs include Algebra I, Geometry, English 9, English 10, Earth Science, Biology.	

Outdoor Education Laboratory School: High School Leader

Prerequisite: Application and interview process; Cumulative GPA above 2.0; 90% attendance rate or better; Good behavior record	0.5 credit
Grade(s): 11, 12	Semester
	Fee: None
Students have the unique opportunity of serving as high school leaders at one of the Outdoor Education facilities. This is a week-long, residential experience at one of the district's Outdoor Education Laboratory Schools. Leaders are expected to meet with 6 th grade students/teachers at least four times at the elementary school, learning their roles, developing core class outlines, and generally preparing for the on-site experience. High school leaders' responsibilities will be to teach 6 th graders about Colorado history, ecosystems, lead geology hikes, supervise 6 th graders on free time and in the bunkhouse. High school leaders who successfully complete a week of teaching and supervision responsibilities on site will have their experiences evaluated by the OELS principal and teaching staff. Students may choose to receive 0.5 credits towards graduation requirements for the OELS experience, or students may choose to have their OELS experience be 88-110 hours of community service. A grade of "pass" or "fail" will be awarded for those that choose to receive credit. Students may only be an Outdoor Lab Leader twice during their high school experience. Please see your counselor for more information. OELS does not count as one of a student's minimum 5 or 6 classes. If credit is chosen, it will be added at the end of the semester, therefore, students must be sure to not include OELS as one of their 5 or 6 minimum number of classes.	

Department of Student Success (DSS) and English as a Second Language (ESL) Programs

The Department of Student Success (DSS) supports students with Individual Education Plans (IEP's). Columbine HS utilizes a fully inclusive model for delivery of instruction. Students with IEP's may receive support from a Learning Specialist in 9th, 10th or 11th grade Language Arts, Algebra I or Geometry. In addition, students requiring more intensive support may be placed in an Extended Reading, Extended Algebra or an Extended Geometry class. Extended classes fall under the category of Elective classes. For students who are identified and require additional learning in math foundational skills, there is an alternative pathway to build life skills to support their additional math needs. These classes will be taken in lieu of Algebra I or higher.

Jeffco's English as a Second Language program develops the ability of English Language Learners (ELLs) to speak, read, write, and understand English for a variety of purposes. The program also provides ELLs with the support they need to access grade-level curriculum as they are learning English. ESL staff at Columbine work to support students who are currently enrolled the ELL program by teaching English classes designed to fit a student's level of proficiency in English. These are the ESL English classes offered at Columbine:

Newcomer English Language Arts	This course is designed primarily for linguistically diverse newcomers to the US who speak little or no English, have had limited or interrupted formal education, and may not be literate in their home language. Students in this class typically enter with a WIDA language proficiency level of approximately N/A to 1.4. Students will develop foundational English language skills in speaking, listening, reading and writing with particular emphasis on oral language communication, basic literacy skills, plus an introduction to the American school system and culture. This class prepares students to interact with teachers and peers in content area classes and adapt to the American educational system at the secondary level. The curriculum is based on the Colorado Academic Standards (CAS), Colorado English Language Proficiency (CELP) Standards, and WIDA performance definitions. Students will receive English Language Arts credit.
Beginning English Lang Arts	This course is designed primarily for linguistically diverse beginners who have completed Newcomer ELA (ESL 1), or are new arrivals to the US who have had formal education and are literate in their home language. They are still in the beginning or early intermediate stages of English language development, and typically enter with a WIDA language proficiency level of approximately 1.5 to 2.4. Through developmentally appropriate literary texts and highly scaffolded instruction, students develop or improve academic English language skills in speaking, listening, reading and writing, with particular emphasis on oral language, literacy, and American culture. This class prepares students to interact with teachers and peers in content area classes and adapt to the American educational system at the secondary level. The curriculum is based on the Colorado Academic Standards (CAS), Colorado English Language Proficiency (CELP) Standards, and WIDA performance definitions. Students will receive English Language Arts credit.
Intermediate English Lang Arts	This course is designed primarily for linguistically diverse students who have completed Beginning ELA (ESL2), or are new arrivals to the US who have had formal education and are literate in their home language. They possess intermediate level knowledge of academic English in speaking, listening, reading and writing. They typically enter with a WIDA language proficiency level of approximately 2.5 to 3.4. Through developmentally appropriate texts and highly scaffolded instruction, students continue to develop and improve English language skills with emphasis on expanded literacy, critical thinking and oral language skills necessary to interact with teachers and peers at the secondary level. The curriculum is based on the Colorado Academic Standards (CAS), Colorado English Language Proficiency (CELP) Standards, and WIDA performance definitions. Students will receive English Language Arts credit.
Advanced English Language Arts	This course is designed primarily for linguistically diverse students who are in the higher intermediate to advanced stages of English language development. They may have completed Intermediate ELA (ESL 3), or may be new arrivals to the US. Although the students may have advanced oral skills, they struggle with the academic literacy demands of non-sheltered content classes. They typically enter with a WIDA language literacy proficiency level of approximately 3.5 or above. Through scaffolded instruction and developmentally appropriate texts across content areas, students expand their reading comprehension, oral and written expression, and improve the critical thinking and analytical skills necessary to access grade level curriculum at the secondary level. The curriculum is based on the Colorado Academic Standards (CAS), Colorado English Language Proficiency (CELP) Standards, and WIDA performance definitions. Students will receive English Language Arts credit.



WARREN TECH

FUTURE READY.

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

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



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BUSINESS, MARKETING & PUBLIC ADMINISTRATION

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HEALTH SCIENCE, CRIMINAL JUSTICE & PUBLIC SAFETY

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

HOSPITALITY, HUMAN SERVICES & EDUCATION

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

SKILLED TRADES & TECHNICAL SERVICES

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

STEM, ARTS, DESIGN & INFORMATION TECHNOLOGY

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

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WARREN TECH

LISTO PARA EL FUTURO.

WARREN TECH es el Centro Educativo Profesional y Técnico (CTE, por su sigla en inglés) designado de las Escuelas Públicas de Jeffco y es el trampolín para una ventaja competitiva en la preparación postsecundaria y en las oportunidades profesionales.

Una extensión de todas las escuelas preparatorias de Jeffco, los estudiantes asisten a Warren Tech Central, Norte o Sur durante la primera parte del día y a sus escuelas preparatorias durante la segunda parte. Los créditos obtenidos en Warren Tech cuentan para la graduación de las escuelas secundarias locales de los estudiantes. Los estudiantes de segundo y tercer año pueden solicitar asistir a su tercer y último año.



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NEGOCIOS, MARKETING Y RELACIONES PÚBLICAS

- Administración de negocios

CIENCIAS DE LA SALUD, JUSTICIA PENAL Y SEGURIDAD PÚBLICA

- Justicia penal
- Asistente dental
- Servicios médicos de emergencia
- Ciencias sobre la gestión de incendios/Respuesta inmediata en caso de emergencias
- Ciencias forenses
- Auxiliar médico
- Introducción a la Enfermería
- Programa de terapia física
- Medicina deportiva

HOTELERÍA, SERVICIOS HUMANOS Y EDUCACIÓN

- Cosmetología: Estética
- Cosmetología: Peluquería
- Cosmetología: Tecnología para el cuidado de las uñas
- Artes culinarias
- Educación y liderazgo
- Liderazgo para actividades al aire libre
- Programa de gestión de eventos y centros turísticos

OFICIOS ESPECIALIZADOS Y SERVICIOS TÉCNICOS

- Tecnología de mantenimiento de aviones
- Reparación de carrocería automotriz
- Personalización de automóviles
- Tecnología automotriz
- Programa de tecnología de la aviación
- Oficios de la construcción
- Tecnología de mecanizado de precisión
- Soldadura

STEM (Ciencia, Tecnología, Ingeniería, Matemáticas), ARTES, DISEÑO Y TECNOLOGÍA DE LA INFORMACIÓN

- Tecnología de impresión avanzada 3D
- Programa de producción de audio y música
- Ciencias de la computación
- Seguridad cibernética
- Ingeniería: Diseño y construcción
- Desarrollo de juegos
- Diseño gráfico e ilustración
- Programa de producción de sonido y eventos en directo
- Producción de video

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