

Widefield High School



Scheduling Handbook 2025-2026

Widefield High School

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Dear Students and Families,

This Scheduling Handbook is an important tool for students and parents to use in planning course selections for next year. This handbook provides course descriptions and course prerequisites, along with information regarding four-year high school program planning, graduation requirements, and college entrance requirements.

In addition to this handbook, students and parents should work with counselors and teachers to make the appropriate decisions regarding course selections. Counselors have information regarding courses that may help students explore their interests to prepare them for education and careers beyond high school.

It is important to note that courses, policies and procedures outlined in this guide are tentative and dependent upon student need, staffing, policies, and Widefield High School (WHS) building decisions.

Please be aware that student requests and alternate course choices should be made with great care. Our schedule is developed based on these requests. Students will receive a copy of their course requests to review prior to our populating the master schedule. Students wishing to change a request need to do so in the appointed time frames. Once the master schedule is created, changes in student schedules are made only to balance classes or to meet very specific individual student concerns. For informational purposes, a copy of the schedule change protocol and the calendar for withdrawing from a class can be found in this handbook.

Sincerely,

The Administrative and Counseling Teams

Notice of Nondiscrimination

Widefield School District #3 complies with all state and federal regulations prohibiting discrimination on the basis of race, color, national origin, creed, religion, age, sex, and disability. WSD#3 is an Equal Opportunity Employer. Inquiries concerning the application of Title IX, section 504, or Title VI may be referred to Widefield School District's administrative office at 1820 Main Street, Colorado Springs, CO 80911 or to the Regional Director of Education, Office of Civil Rights, 1961 Stout Street, Denver, CO 80294.

CTE Student Information Compliance Statement

Widefield School District 3 offers Career and Technical Education (CTE) for all students and does not discriminate on the basis of race, color, national origin, creed, religion, age, sex, or disability in its programs or activities. Inquiries regarding nondiscrimination may be referred to the WSD3 Executive Director of Human Resources, as compliance officer, at the Widefield School District 3 Administration Building, 1820 Main Street, Colorado Springs, CO 80911, humanresources@wsd3.org, 719-391-3015.

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Planning for High School & Beyond

Graduation Requirements

The information below is a summary of Widefield School District 3 graduation requirements. Forty-eight (48) semester credits in grades 9-12 are required for graduation or the completion of the requirements and goals as listed on a student’s Individualized Education Program (IEP), which may include modified academic standards. A semester credit is given for successful completion of a course. Some courses may have required standards which also must be met.

Please view [District Policy IKF](#) for full details.

Class of 2026 Graduation Requirements

Course Type	Credits	Special Notes
Communication	8	3 Composition 2 Literature 2 Comp. or Lit. 1 Speech
Mathematics	6	
Science	6	2 Life Science 2 Earth Science 2 Physical Science
Social Studies	7	1 SS9 1 Geography 2 World History 2 U.S. History 1 Government
Personal Development	5	2 P.E. 1 Health 2 Fine Arts OR World Language OR Careers
	32	Required Credits
Electives	16	Credits earned beyond the requirements listed above will count as unrestricted elective credit
	48	Total Credits

Class of 2027 & Beyond Graduation Requirements

Course Type	Credits	Special Notes
English	8	
Mathematics	6	
Science	6	2 Life Science 2 Earth Science 2 Physical Science
Social Studies	6	2 World History or 2 U.S. History 1 Government
Personal Development	5	2 P.E. 1 Health 2 Fine Arts OR World Language OR Careers
	31	Required Credits
Electives	17	Credits earned beyond the requirements listed above will count as unrestricted elective credit
	48	Total Credits

- A maximum of four credits may be accepted for graduation for students who satisfactorily complete approved courses through accredited distance learning (correspondence or web-based) programs. Rigorous academic classes successfully completed at all colleges/universities participating in the Postsecondary Options Act may be approved as well as certain courses from other colleges/universities. Students must complete all graduation requirements to be eligible to participate in the graduation ceremony.
- A maximum of one PE credit will be waived for the following: completion of two seasons of a sport, two seasons of Marching Band, or two semesters of NJROTC.

Graduation Competencies

In addition to the previously mentioned credit requirements, the Class of 2021 and beyond will need to achieve one of the following competencies in English and Math to qualify for graduation.

Menu of Options	English	Math
Accuplacer	62 on Reading Comprehension 241 Reading or 236 SW (NextGen)	61 Elementary Algebra ~or~ 255 AR or 230 QAS (NextGen)
ACT Work Keys – National Career Readiness Certificates	Bronze or higher	Bronze or higher
Advanced Placement Exams (AP)	2 or higher on the following AP exams: AP English Language AP English Literature AP European Literature AP US Government AP US History AP Biology AP Environmental Science	2 or higher on the following AP exams: AP Calculus I (AB) AP Calculus II (BC) AP Computer Science AP Statistics AP Chemistry AP Physics I AP Physics II
Concurrent Enrollment	Passing per district higher education policy	Passing per district higher education policy
SAT	470	500*
ACT	18	19
ASVAB	31	31
Industry Certificate	Per district approval	Per district approval
District Portfolio or District Course with Embedded Portfolio (CEP)	<ul style="list-style-type: none"> ● ACE-CD I & II (both required) ● ACE-WE & SF (both required) ● ACE-SF and CD I ^{OR} CD II ● ACE-WE and CD I ^{OR} CD II ● Creative Writing ● Intermediate Composition ● Technical Writing ● Technical Writing 300 	<ul style="list-style-type: none"> ● ACE PFL ● Algebra 2/H Algebra II (1st sem.) ● Algebra 2A (full year) ● Consumer Math (entire year) ● Math Today ● Personal Financial Literacy (PFL)

***SAT Math Competency for the Class of 2025 and 2026 is 480**

Colorado HEAR Requirements

Students planning to attend a four-year college or university in Colorado should complete the following classes in order to fulfill the Higher Education Admission Recommendations (HEAR). HEAR is one factor of many that public four-year institutions consider in the admission decision process. Visit the [CDHE Admission webpage](#) to learn about all admission review factors. Meeting HEAR does not guarantee admission to a four-year public institution. Additionally, colleges, universities and certain academic programs may have additional admission factors. The successful completion (grade "C" or better) of a college-level course while in high school will satisfy HEAR for the relevant subject area.

The adopted Pre-collegiate Curriculum for students graduating in 2010 or later consist of:

- Four years of English
- Four years of Mathematics (Must include Algebra I, Geometry, Algebra II, or equivalents)
- Three years of Science - two must be lab courses
- Three years of Social Studies - one of which must be US History or World History
- Two years of Academic Electives

- One year of World Language

Four Year Plan

PLANNING YOUR ACADEMIC PROGRAM (Class of 2026)

Com mun icati on	English 7 Credits
	Speech 1 Credit
Mat h	Math 6 Credits
Scie nce	Science 6 Credits
Soci al Stud ies	Social Studies 4 Credits
	Americ an Govern ment 1 Credit
	US History 2 Credits
Pers onal Dev elop men t	Physica l Educati on 2 Credits
	Health 1 Credit
	Fine Arts, World Languag e or <u>Careers</u> 2 Credits
	Electiv es 16 Credits

Life	Life	Earth	Earth	Physical	Physical		
SS9 or AP Hum Geo	Geo or AP Hum Geo	W Hist	W Hist				
Gov or AP Gov							
US Hist or AP US Hist	US Hist or AP US Hist						
PE 9							
Health							

Four Year Plan

PLANNING YOUR ACADEMIC PROGRAM (2027 & BEYOND)

Com mun icati on	English 8 Credits						
Mat h	Math 6 Credits						
Scie nce	Science 6 Credits						
Soci al Stud ies	Social Studies 6 Credits						
Pers onal Dev elop men t	Physica l Educati on 2 Credits						
	Health 1 Credit						
	Fine Arts, World Langua ge <u>or</u> <u>Careers</u> 2 Credits						
	Elective s 17 Credits						

Transferring to or from WHS

Students will be classified according to the number of years they have been in attendance in high school. Students who do not complete enough credits to graduate in May of their original graduation year will need to meet with their counselor and obtain resources for an alternate plan to complete graduation requirements.

Widefield High School must receive official transcripts from the student's previous school before credit can be given. We will accept credit from any accredited high school. Copies of transcripts may be used for enrollment purposes only. Students transferring to WHS with weighted grades, such as Honors and/or AP classes, will maintain the weight assigned to the grade if WHS offers the same or an equivalent course. If the course is not offered by Widefield High School, the student will maintain the grade awarded by the previous school for the course but the weight will not transfer. Students transferring into Widefield High School must bring a copy of all prior transcripts in order to enroll and register for classes.

The following policy applies for students transferring into Widefield High School:

- 0-5 Weeks:
1. Student will receive a new WHS Schedule.
 2. No transfer grades are necessary but will be applied if available.
 3. Students grade will begin on the students start date.
 4. Students will not be required to do makeup work but will be required to know all material for the final.
- 6-9 Weeks:
1. Counselors will match the student's previous schedule as closely as possible
 2. Transfer grades will be applied for specific class or content area when available.
 3. Classes that do not have a transfer grade will begin on the student start date as far as grading. No makeup work will be required but students are responsible for all content that will be tested on the final exam.
 4. For classes with no transfer grade, the student will have to pass the final exam with at least a 70% to earn credit and a letter grade in the course.
- 10-13 Weeks:
1. Counselors will match the student's previous schedule as close as possible.
 2. Transfer grades will be applied for specific class or content area when available.
 3. Classes that do not have a transfer grade, student will have to pass the final exam with at least a 70% to earn credit and will receive a PASS for the course.
 4. For classes with no transfer grade, student will have to pass the final exam with at least a 70% to earn credit and will receive a PASS for the course.
- 14-18 Weeks:
1. Counselor will work closely with previous school to obtain final coursework and finals.
 2. When not possible, counselors will use previous schedule to match the student's classes - transfer grades will not be applied.
 3. All other course work will be audited for the remainder of the semester.

* All guidelines are at the discretion of the principal and may be changed with approval to meet individual needs.

Withdrawing from Widefield High School

When it is necessary for a student to transfer or withdraw from Widefield High School, the student's parent/guardian must come to the registrar's office as soon as possible in person to initiate the withdrawal. We request that the parent/guardian bring the name and address of the next school the student will attend.

College Admission Recommendations

We encourage Widefield High School students to plan for post-high school education. Listed below are recommended admission criteria by level of selectivity. Requirements vary greatly (by major, etc.), so students should consult college websites, attend college fairs, and visit with college representatives. Consult with the College/Career Center for information on how to access these resources.

In-State Four-Year Public Colleges

Colorado Pre-Collegiate Curriculum

The Pre-Collegiate Curriculum is a combination of courses in the academic areas that students should take for entrance to Colorado's four-year public colleges or universities.

English	4 years, 8 credits
Math	4 years, 8 credits - Algebra I, Geometry, Algebra II or equivalents
Natural/Physical Sciences	3 years, 6 credits
Social Sciences	3 years, 6 credits - 1 Year of U.S. or World History
Academic Electives	2 years, 4 credits - Additional courses from above areas and/or world languages
World Language	Most four-year colleges in Colorado recommend at least three years of the same world language. The University of Colorado system and Colorado State University requires two or three years, depending on the field of study.
Index Scores	Four-year public universities and colleges in Colorado utilize the Grade Point Average and best ACT/SAT scores to calculate an Index number which is a basic requirement for admission. Different schools have different index number requirements. Your counselor has a chart showing these scales.

Most Highly Selective Universities

Minimum of 36 high school credits:

English	4 years - With a continued emphasis on writing World Language 4 years - All study completed in one language
Math	4 years - Preferably including an introduction to Calculus
Science	4 years - To include two to three years of laboratory science. Recommended biology, chemistry and physics.
Social Science	4 years - To include one year of U.S. History
Arts	1 Year

College requirements for test scores and grade-point averages will vary from the most difficult (above) to noncompetitive, where virtually all applicants are accepted regardless of rank/GPA/scores. The three categories below describe where most other colleges fit.

Very Selective More than 50% of the college freshmen are in the top 10% of their high school class and scored over 1230 on the SAT I or 27-35 on the ACT; about 60% or fewer of the applicants were accepted.

Moderately Selective More than 75% of the freshmen are in the top half of their high school class and scored over 1010 on the SAT I or over 22 on the ACT; about 85% or fewer of the applicants were accepted.

Minimally Selective Most freshmen were not in the top half of their high school class and scored somewhat below 1010 on the SAT I or below 20 on the ACT; up to 95% of the applicants were accepted.

Admissions personnel will take into consideration the rigor of your curriculum, personal essay, letters of recommendation, extra-curricular activities, and community service activities

Athletics & Activities Eligibility

In order to be eligible to participate in athletics and activities at WHS:

1. Students must carry 5 full-credit classes during the semester they compete, and 5 full-credit classes in the semester before they compete. Students who plan to participate in athletics and activities must always carry 5 full credit classes. (Teacher Assistants, Peer Tutors, and Study Hall receive 1/2 credit; partial absences receive no credit.)

2. Students must not be failing more than 1 unit of credit at the time of participation or the semester before they participate.

College Athletics: NCAA Eligibility

Students who are interested in competing in college athletics at the Division I or II level should complete an NCAA Eligibility form as early as their sophomore year and before the end of their junior year. This form is to be completed online at www.eligibilitycenter.org. Once registered with the Eligibility Center, students will need to request their transcripts to be sent.

TO BE CERTIFIED TO PLAY SPORTS AT THE DIVISION I OR II LEVELS, STUDENTS MUST:

- Register with the Eligibility Center.
- Request that high school transcripts be sent to the Eligibility Center (please note: you must send a transcript from every high school you have attended to the Eligibility Center).
- Take an ACT and an SAT
- Request that your scores are sent to the Eligibility Center directly from the testing agency (NCAA will not accept your test scores from your transcript). Use the free reporting service during test registration to send scores. The Eligibility code is: 9999
- Earn a grade point average of at least 2.3 in core classes completed during grades 9-12. Only approved WHS classes can be used to calculate the GPA. Check WHS' core list on the Eligibility website.
- Earn specific scores on the ACT or SAT based on your cumulative GPA. See sliding scale on Eligibility website.
- Students should check to see which WHS courses have been approved by NCAA. To do so, log onto www.eligibilitycenter.org and use our school code, which is 22017. Any courses taken pass/fail are calculated as a "D" in the GPA.
- Students should access the website if they have questions or meet with the College Counselor or Athletic Director.

Students must meet the below requirements to receive athletics aid, practice, and compete their first year of college. For more information about NCAA go to www.eligibilitycenter.org. Students will also need to register with NCAA Clearinghouse before entering college.

DIVISION 1

16 core courses in the following areas:

- 4 years English
- 3 years math at Algebra I level or higher
- 2 years natural or physical science (1 lab)
- 1 year additional English, math, or natural/physical science
- 2 years social studies
- 4 years additional from areas above or foreign language

Minimum required GPA

- Minimum GPA of 2.30 in those 16 core courses.
- Completion of sliding scale for SAT or ACT. Sliding scale depends on GPA. The SAT or ACT must be administered at a national testing site. See counseling office with questions.

Graduate from high school.

DIVISION 2

16 core courses in the following areas:

- 3 years English
- 2 years math at Algebra I or higher
- 2 years natural or physical science
- 3 years additional English, math, or science
- 2 years social studies
- 4 years additional from areas above or foreign language

Minimum required GPA

- Minimum GPA of 2.20 in those 16 core courses.

- Completion of sliding scale for SAT or ACT. Sliding scale depends on GPA. The SAT or ACT must be administered at a national testing site. See counseling office with questions.

Graduate from high school.

Protocols

Class Scheduling

Selecting Classes

The school develops the master schedule (course offerings and times) based upon the pre-registration requests by students. Early each spring, students select from available courses, considering graduation requirements, their postsecondary plans, and interests. Students must adhere to the procedure and dates for all scheduling procedures.

Study the graduation requirements and course descriptions carefully with your parents/guardians before planning your program and selecting courses. Your choice of courses must be based on graduation requirements, post-high school plans, teacher recommendations, interests and abilities, and your achievements. Your counselor and teachers will assist you with your decisions.

Students may choose from a broad range of course offerings at Widefield High School designed to meet individual needs, such as Advanced Placement (AP), Honors (H), Career Start Program (Pikes Peak Community College), Post-Secondary Options, General, Vocational, and Special Needs (placement requires formalized assessment procedures).

Schedule Changes

Students and parents have the opportunity to choose most classes and have developed a Plan of Study with their counselors. Therefore, it is expected that students will carefully consider this process and be responsible for the decisions they make. Students also need to consider their alternate courses carefully; alternates are taken into consideration when building schedules and may appear in student schedules.

- Students should take time to carefully choose their course requests for the following school year. When students meet with their counselors in January, they will sign up for courses for the following school year.
- The master schedule will be created.
- Students will receive a copy of their draft schedule to review with their parents/guardian.
- Students will be notified one final time two weeks prior to the schedule change deadline to make any adjustments to the requests.
 - o Students who have course conflicts, classes that did not make due to low enrollment, and other schedule-related issues will have an opportunity for a final review of their schedule prior to the end of the school year.

The master schedule for the school is built based upon the courses that students request. The schedule change window occurs in May and will be announced via email to students. This is the only time that students can request schedule changes, and only for the reasons listed below. A request is not a guarantee of change.

Changes May be Requested for the Following Reasons

- Academic misplacement
- Challenge by choice (to increase challenge)
- To add a course needed for graduation
- To drop a course when pre-requisites have not been met
- Empty blocks in schedules

Inappropriate Schedule Change Requests

- Requests for teacher change
- Being in a class with friends
- Changing a class to a different block
- Elective changes

Schedule changes could impact athletic/activities eligibility.

Weeks 1-2: After the official schedule change deadline, changes will only be made during the first week of first semester (for yearlong classes), or first week of 2nd semester (for semester classes) for teacher recommended level changes, on a space-available basis. Students who are requesting a change due to academic misplacement must discuss their concerns with the teacher before meeting with their grade level counselor. A request is not a guarantee of a change.

Scheduling Timeline

Time Frame	Activity
January	Students enter course requests into Infinite Campus.
January/February	Students meet with their counselor to confirm course requests.
February-April	Master Schedule built.
April/May	Students will receive a copy of their draft schedule to review with their parents/guardian.
May (2 Week Window)	Students will be notified one final time two weeks prior to the schedule change deadline to make any adjustments to the requests. Students who have course conflicts, classes that did not make due to low enrollment, and other schedule-related issues will have an opportunity for a final change to their schedule prior to the end of the school year.
1 st Week of 1 st Semester (Year Long & Semester Courses) 1 st Week of 2 nd Semester (Semester Courses Only)	Students may request a schedule change only for the following reasons: <ul style="list-style-type: none"> ● Academic misplacement ● Change a course in schedule that was not requested by the student ● Challenge by choice (to increase challenge) ● To add a course needed for graduation ● To drop a course when pre-requisites have not been met ● Empty blocks in schedules ● Senior Reduced Schedule ● Student Assistantship A request is not a guarantee of a change.
After 1 st Week of Each Semester	Students withdrawing from a course must receive parent, teacher, counselor, and administrative approval. Students granted permission to withdraw will be enrolled in a study hall, and the following guidelines will apply: <ul style="list-style-type: none"> ● Weeks 1 - 2 Student may withdraw with no grade assigned. ● Weeks 3 - 6 Student will receive a Withdraw (W) on their transcript. ● Weeks 7 - 12 Student will receive a .25 credit of the current grade earned in the course on their transcript ● Weeks 13 - 18 Student remains in the course or receives a .5 F for the semester grade. The appropriate form will be completed and signed by all parties required. The form will be submitted to the Scheduler.

Withdrawal Procedures

1. Students withdrawing from a course must receive parent, teacher, counselor, and administrative approval.
2. Students granted permission to withdraw will be enrolled in a study hall, and the following guidelines will apply:
 - a. Weeks 1 - 2 Student may withdraw with no grade assigned.
 - b. Weeks 3 - 6 Student will receive a Withdraw (W) on their transcript.
 - c. Weeks 7 - 12 Student will receive a .25 credit of the current grade earned in the course on their transcript
 - d. Weeks 13 - 18 Student remains in the course or receives a .5 F for the semester grade.
3. The appropriate form will be completed and signed by all parties required. The form will be submitted to the Scheduler.

Level Change Procedures

1. Students or teachers may initiate a request for a level down change within a subject that offers multiple levels.
2. A level change must receive parent, teacher, counselor, and administrative approval.
3. All changes must be completed by the end of the 9th week of the semester.

Grading & Credits

Grade Point Averages & Weighted Grades

The following point values will be used to compute the grade point average. Courses which are weighted will have a consistently verifiable, elevated, and more rigorous curricula compared to unweighted courses. These courses are noted with a W* (honors weight) or a W** (AP weight) designation in the course description. Students who successfully pass a class with weighted credit will automatically receive extra grade points for the course based on the scale below. Plus/minus grades, which may appear on student grade reports, do not change GPA.

	Standard Weight	Honors Weight	AP Weight
A	4.0	4.5	5.0
B	3.0	3.5	4.0
C	2.0	2.5	3.0
D	1.0	1.5	2.0
F or WF	0.0	0.0	0.0

Retaking a Course for Credit

Students may retake a course if they have earned a “D” or “F” grade to achieve better mastery and understanding of the content and/or to progress more knowledgeably in the sequence of classes. The retake option is to be used with caution since a student is not permitted to receive duplicate credit for a repeated course in which they previously earned a D.

Students wanting to retake a course must contact their counselor. Retakes will be taken at Widefield High School only. Students may not retake the course as an independent study. Both the original and retake grades will appear on the transcript. If the retake grade is higher than the original grade of D or F, it will be calculated in the GPA in place of the original grade. If the original grade of D or F is higher or the same as the retake grade, it will be calculated in the GPA.

Transfer Credits

Incoming students must provide an official transcript for courses to be accepted at Widefield High School (see Homeschool Credits for separate procedures). If a student transfers from a school outside of the United States (except DOD), it is requested that the student provide English translation of the transcript with an English explanation of grading and credits from the sending school. Letter grade weighting will be given only to corresponding courses and weighting available to current WSD3 students. Courses will be accepted when the same course is offered in District 3. Classes that are not offered in Widefield School District 3 will be accepted as elective credit in the appropriate content areas. All transfer students must fulfill WSD3 Graduation Requirements in order to receive a diploma. No 8th grade course will not count for credit toward high school graduation requirements, even if already transcript by previous high school. School officials will accept the weighted credits for courses that correspond with WSD3 course offerings. However, weighted values may need to be converted to align with WSD3’s weighted course status (5.0 for AP/IB credits, 4.5 for college preparatory or honors courses). Weighted International Baccalaureate, Advanced Placement, and honors courses which are not offered in Widefield School District 3 will be converted to the district’s 4.0 scale.

Outside Credits

[Policy IKF](#) | A maximum of four credits may be accepted for graduation for students who satisfactorily complete approved courses through accredited distance learning (correspondence or online) programs. Credits must be documented on an official transcript. Rigorous academic classes successfully completed at all colleges/universities participating in the Postsecondary Options Act may be approved as well as certain courses from other colleges/universities. Students must complete all graduation requirements to be eligible to participate in the graduation ceremony. Students entering from outside the district must meet the district graduation requirements. The principal shall determine whether credit toward graduation requirements shall be granted for courses taken

outside the district. Students who are currently enrolled in the district and wish to obtain credit from outside institutions, or through “online” programs, must have prior approval from the principal. Students are responsible for knowing and understanding deadlines in order to receive credit and participate in graduation.

Homeschool Credits

[Policy IKF](#) |The district shall accept the transcripts from a home-based educational program. In order to determine whether the courses and grades earned are consistent with district requirements and district academic standards, the district shall require submission of academic records from an accredited program. If the program is not accredited, the family must submit documented course work (student’s work) or other proof of academic performance for each course for which credit toward graduation is sought. In addition, the district may administer testing to the student to verify the accuracy of the student’s transcripts. The district may reject any transcripts that cannot be verified through such testing. Homeschool Key: W*/W**=Weighted Credit; IC=Industry Certification Available; GC/P=Meets Graduation Competencies with Portfolio 8 | Page Updated: 13-Aug-23 credits are transcribed on a P/F basis. Homeschool students must attend Widefield on a full-time basis for a minimum of one semester during senior year to be eligible for a district diploma.

Concurrent Enrollment Credits

The CU Succeed program is a unique opportunity for students to earn college credit while attending high school classes. Widefield High School has collaborated with both the University of Colorado at Colorado Springs (UCCS) and the University of Colorado at Denver (UCD) to provide this opportunity for students. Students who choose the dual credit option will be required to pay tuition to the university at a reduced rate. The tuition rate is around \$60.00 per credit hour at UCD and \$52.00 per credit hour at UCCS; these prices are set by the Universities and subject to change. We will let students and parents know the exact credit hour cost upon announcement. Most classes are three to four credit hours. Please note that the universities provide guidelines for how students earn grades in these courses. Therefore, the rigor is greater in these courses than in a traditional high school course. Upon completion of the course, students will have a college transcript that most of the public colleges and universities in the state of Colorado accept. Students who are considering going to a private school or attending college out of state should consult with their counselor prior to registering for dual credit.

Honors & AP Courses

Honors Courses

Honors courses are intended to meet the needs of students whose ability level requires significant acceleration of the standard curriculum. Honors classes stress academic excellence, preparation for college, and critical and independent thinking skills. Students who enroll in honors classes are expected to work at a high level of competence and to responsibly accept the academically rigorous challenges set forth.

Honors courses offered at Widefield High School have an additional grade weight of 0.5; therefore, if a student earns an A in an Honors course, the student will receive a 4.5. Because these courses are given additional grade weight, it is important that the student understands the class expectations.

Note: Students must receive administrative approval in order to drop an AP or Honors course.

The following Honors courses are offered at Widefield High School; however, whether or not they are offered each year, depends upon student requests and building needs.

Honors Courses

Honors Athletic Training	Honors English 09
Honors Biology	Honors English 10
Honors Chemistry	Honors Spanish III
Honors Geology	Honors French III
Honors Human Physiology	Honors German III
Honors Algebra II Trig	Honors Chamber Strings
Honors Discrete Math	Honors Chambers Winds
Honors Pre-Calculus	Honors Teacher Cadet I
Honors World History	

PLTW Courses

PLTW Principles of Biomedical Sciences
PLTW Human Body Systems
PLTW Medical Interventions
PLTW CAPSTONE Biomedical Innovations
PLTW Environmental & Sustainability
PLTW Principles of Engineering
PLTW Aerospace Engineering
PLTW Civil Engineering & Architecture

Advanced Placement (AP Courses)

The Advanced Placement (AP) program is a national program offered by Widefield High School in cooperation with the College Board. The AP program provides students the opportunity to pursue college-level studies while in high school. At the conclusion of the AP course, students will take a College Board National AP Exam administered on a national test date. Depending on scores, a student may receive college-level credit for AP classes. Acceptance of AP scores for college credit is determined by each college or university. It is the student's responsibility to research policies at individual institutions regarding AP credit.

AP courses offered at Widefield High School have an additional grade weight of 1.0; therefore, if a student earns an A in an AP course, the student will receive a 5.0.

The following AP courses are offered at Widefield High School; however, whether or not they are offered each year, depends upon student requests and building needs.

- AP U.S. Government
- AP U.S. History
- AP African American Studies
- AP Biology
- AP Pre-Calculus
- AP Calculus AB
- AP Calculus II BC
- AP Chemistry
- AP Computer Science Principles
- AP Environmental Science
- AP European History
- AP German Language and Culture
- AP Human Geography
- AP Seminar
- AP English Language and Composition
- AP Composition and Literature
- AP Physics
- AP Spanish Language and Culture
- AP Spanish Literature and Culture
- AP Statistics

Early Completion of the High School Program

The Board of Education believes that most students benefit from four years of high school experience and students are encouraged not to graduate early. However, in some cases, students need the challenge provided by postsecondary education or other opportunities at an earlier age. Therefore, the principal may grant permission to students wishing to graduate early, provided the student has met all district graduation requirements. Students interested in early graduation must speak with their counselors for academic advisement and to complete the early graduation application. Students who graduate in December of their senior year are no longer eligible for participation in Student Cabinet or CHSAA-governed athletics and activities. Four-year colleges generally do not recommend graduating early unless there are extenuating circumstances; students should coordinate with college admissions prior to making this decision.

Late Graduation

All seniors must complete all graduation requirements to participate in the graduation ceremony. Those who do not complete requirements by the deadline but do complete them by July 31 will be considered a graduate of that school year

Senior Reduced Schedule Request

Seniors who are in good standing and who are on-track to graduate on time may request a “Reduced Schedule,” meaning that they could have a period with no class. Reduced schedules allow seniors additional time to work or to complete classwork for school and concurrent enrollment classes. Reduced schedule periods are limited based on the current bell schedule, and students must be enrolled in a minimum of five credits for participation in athletics and activities. Students may not have a reduced schedule period between two other scheduled classes. Additionally, students/families are responsible for:

- verifying that the student is on track to graduate
- understanding and assuming all potential risks including graduation requirements, NCAA eligibility, and postsecondary education admission requirements
- knowing when there is an adjustment to the school schedule and for attending classes at the correct time
- providing transportation to and from school for the reduced period(s)
- being off campus during the reduced schedule period(s)
- the student’s safety and well-being during the time off campus

Forms are available in the Counseling Center and on the website.

Early Completion Procedure

Students are expected to take their finals on the assigned date. Students leaving Widefield High School early must have their parent contact their counselor and complete an “Early Completion of Semester” form (available in the counseling center) at least two weeks before departure date. In order to satisfactorily complete the semester, students interested in early completion must comply with the periods that follow:

- Three weeks before end of semester date – moving out of the country
- Two weeks before end of semester date – moving out of the state
- One week before end of the semester date – moving out of the district

Core Departments Course Descriptions

English Department

English Overview

Class of 2026

		9 th Grade	10 th Grade	11 th Grade	12 th Grade	
Full Year Courses	Required for Graduation	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or AP Lang & Comp		
	Electives		Journalism		AP Lit & Comp	
Semester Courses	Required for Graduation			Speech		
	Electives			<ul style="list-style-type: none"> ● British Literature ● Multicultural Literature ● World Literature ● Creative Writing ● Advanced Creative Writing ● Technical Writing 		
		Beginning Oral Interpretation				
				Advanced Oral Interpretation		

Classes of 2027 and Beyond

		9 th Grade	10 th Grade	11 th Grade	12 th Grade	
Full Year Courses	Course Sequence	English 9 or Honors English 9	English 10 or AP Seminar	English 11 or AP Lang & Comp		
	Electives		Journalism		AP Lit & Comp	
Semester Courses	Electives			<ul style="list-style-type: none"> ● British Literature ● Multicultural Literature ● World Literature ● Creative Writing ● Advanced Creative Writing ● Technical Writing 		
		Beginning Oral Interpretation				
				Advanced Oral Interpretation		

English Course Descriptions

Year Long Courses

English 9 This year-long course stresses the fundamentals of communication in the key areas of writing, reading, speaking, and listening. Through the writing process, students will explore the methods of organizing, developing, and supporting in analysis, expository, and persuasive paragraphs and essays. Correct usage, grammar, spelling, and punctuation will be stressed as part of the revision process. In addition, the research process will be practiced. Students will also read and evaluate a variety of literary genres to practice literary analysis. Oral presentations and interpersonal discussion skills will be introduced to create a more solid foundation for communication.

Course Length	Full Year	Grade(s)	9	Credit	2 Credits COMM (Comp & Lit)
Course Number(s)	18005 A/B	Prerequisite(s)	None		

Honors English 9 The same content standards and curriculum as regular English 9 will be addressed. However, due to the weighted grade and rigorous nature of the class, a stronger emphasis will be placed on analysis, synthesis, cooperative learning, interdisciplinary study, and higher-level thinking skills. Students enrolling in this course are expected to be independent and responsible learners able to complete and apply class ideas to significant work outside of class.

Course Length	Full Year	Grade(s)	9	Credit	2 Credits COMM (Comp & Lit) W*
Course Number(s)	18007 A/B	Prerequisite(s)	None		

English 10 This year-long course builds upon the fundamentals of communication in the key areas of writing, reading, speaking, and listening. Through the writing process, students will explore the methods of organizing and developing support in narrative, descriptive, expository, and persuasive paragraphs and essays. Correct usage, grammar, spelling, and punctuation will continue to be stressed as part of the revision process. In addition, the research process will culminate in a research project. Students will also read and evaluate a variety of literary genres to practice literary analysis. Moreover, oral presentations and interpersonal discussion skills will be practiced to improve communication skills.

Course Length	Full Year	Grade(s)	10	Credit	2 Credits COMM (Comp & Lit)
Course Number(s)	18015 A/B	Prerequisite(s)	English 9 or Honors English 9		

AP Seminar AP Seminar is an AP course with no prerequisites. It helps a wide range of students develop critical thinking, analytic writing, collaboration, and academic research skills. Its project-based learning model engages a diverse range of students. Students build skills foundational for college and career success, including investigating topics, conducting research, collaborating with peers, and presenting their findings. Students work in teams to investigate a real-world or academic problem and present a solution to their proposed problem. The course lays a sure foundation for future high school and college and career success.

Course Length	Full Year	Grade(s)	10	Credit	2 Credits COMM (Comp & Lit) W*
Course Number(s)	18074 A/B	Prerequisite(s)	None		

English 11 English 11 is a year-long American Literature and College Preparatory Composition course which follows and incorporates all the Colorado State Standards for the 11th grade English. This traditional literature course balances the study of American literature with the in-depth study of the four forms of written discourse (narration, description, exposition, and persuasion). The literary selections reflect the changes of American moods and themes. Considerable emphasis is placed upon developing essays in more sophisticated modes, including a research-based persuasive essay. Students will become proficient at analyzing literature, writing in various forms, and evaluating their own writing.

Course Length	Full Year	Grade(s)	11	Credit	2 Credits COMM (Comp & Lit)
Course Number(s)	18017 A/B	Prerequisite(s)	English 10 or AP Seminar		

AP English Language and Composition is a course designed to increase each student's ability to think and communicate logically and effectively, and to increase his/her insight into the human condition. Students will become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. The course will also give them the practice and helpful criticism necessary to make them flexible writers who can compose in a variety of modes and for a variety of purposes. Both their reading and their writing will make them aware of the interaction between authorial purpose, audience needs, and the subject itself, generic conventions, and the resources of language: syntax, word choice, and tone. The work will benefit both students taking the AP exam and those who choose not to take the AP exam.

Course Length	Full Year	Grade(s)	11	Credit	2 Credits COMM (Comp & Lit) W**
Course Number(s)	18075 A/B	Prerequisite(s)	Successful completion of English 10 or Honors English 10. This class is for Junior's only.		

AP Composition and Literature This year-long English course will provide college preparatory students with a traditional background of some of the world's greatest authors and their literature. Students will explore the genres of short stories, novels, dramas, poetry, and essays. Students will be expected to write essays and a variety of other creative forms of composition to demonstrate their ability to analyze, understand, and evaluate great literature. Specifically, students will study the techniques of formal critical analysis in order to write analytical responses to literature. Because of the intensive nature of the course, students must make a strong commitment of both time and effort. This course exceeds Colorado State Content Standards and is specifically designed to prepare students to take the AP Literature and Composition exam.

Course Length	Full Year	Grade(s)	12	Credit	2 Credits COMM (Comp & Lit) W**
Course Number(s)	18076 A/B	Prerequisite(s)	AP English Language & Composition		

Semester Courses

British Literature I/II This traditional upper-level literature course outlines the development of English history, language, and literary forms. Emphasis will be placed on reading, discussing, and analyzing selected classic British literary works, including epics, tales, poetry, plays, essays and novels. Students will be required to demonstrate strong reading and writing skills through a variety of assignments.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit COMM (Literature)
Course Number(s)	18065 A/B	Prerequisite(s)	Successful completion of English 10, Honor English 10, and/or teacher recommendation.		

Multicultural Literature This intermediate level course studies the literature of various racial and ethnic cultures that comprise America. The literary selections read will include the genres of poetry, drama, essays, short stories, novels, biographies, and autobiographies. The course will emphasize the theme of unity through understanding diversity to develop a greater appreciation for all types of literature as a record of human experience. This understanding will be accomplished through reading, discussing and analyzing, researching, writing, and speaking.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit COMM (Literature)
Course Number(s)	18050	Prerequisite(s)	Successful completion of English 10, Honors English 10, and/or teacher recommendation		

World Literature This literature course of both classic and contemporary literary works is comprised of a wide array of selections from regions around the world. Due to the challenging and thought-provoking nature of the literature selections, students will be expected to make use of higher-level reading comprehension and thinking skills. Emphasis will be placed on in-depth analysis through both discussion and writing.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit COMM (Literature)
Course Number(s)	18070	Prerequisite(s)	Successful completion of English 10, Honors English 10, and/or teacher recommendation		

Creative Writing This advanced writing course is for those who wish to further their knowledge and ability in the creative writing forms. Students will also be expected to edit and produce a class edition of a creative writing anthology as well as an individual creative portfolio.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit COMM (Composition)
Course Number(s)	18035	Prerequisite(s)	Successful completion of English 10, Honors English 10, and/or teacher recommendation		

Advanced Creative Writing This advanced writing course is for those who wish to further their knowledge and ability in the creative writing forms. Students will also be expected to edit and produce a class edition of a creative writing anthology as well as an individual creative portfolio.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit COMM (Composition)
Course Number(s)	18040	Prerequisite(s)	Creative Writing and teacher recommendation		

Technical Writing In this course, students develop skills that are applicable to a variety of technical documents. Students extend their vocabulary and learn principles of organizing, writing, revising, and presenting clear, readable, oral, and written documents for industry, business, and government. Students will create a written portfolio, which meets the Colorado Competency requirements for graduation

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit COMM (Composition)
Course Number(s)	26060	Prerequisite(s)	Successful completion of English 10, Honors English 10, and/or teacher recommendation		

Speech This course continues to examine the broad field of communication. Students will increase their knowledge and ability to communicate with others through spoken language. Intra/interpersonal communication, group discussion, and conflict resolution skills will be studied in depth. Individual public speaking (including informative, demonstrative, and/or persuasive speeches) will be an integral part of this course. Effective delivery and listening skills will also be emphasized.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit COMM
Course Number(s)	18085	Prerequisite(s)	English 10, Honors English 10, and/or teacher recommendation		

Beginning Oral Interpretation (Competitive Speech Team)/Forensics Participants in this course will be introduced to certain areas of competitive speech, emphasizing oratory, the interpretation of humor, drama, poetry, DUO interpretation and elements of debate. Students will select one or more area(s) for intensive study and practice, and they will eventually perform in these area(s) in actual tournament competition. Each student will be required to compete in a minimum of three tournaments to earn credit for the course. Individual practices will be conducted in class.

*Class members will automatically become part of Widefield High School's competitive speech team, recognized by the Colorado High School Activities Association; consequently, academic eligibility must be maintained in order to participate in tournament competition. Because of the extensive, out of class required activity, students who attend nine or more tournaments throughout the year, will be able to earn one elective English credit, in addition to earning a speech credit in the English department.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit COMM
Course Number(s)	18094	Prerequisite(s)	None		

Advanced Oral Interpretation (Competitive Speech Team)/Forensics Participants in this course will be introduced to certain areas of competitive speech emphasizing oratory, the interpretation of humor, drama, poetry, and DUO interpretation. Students will select one or more area(s) for intensive study and practice, and they will eventually perform in these area(s) in actual tournament competition. The advanced oral interpretation students will be able to perform 2 events at the competitive level. Each student will be required to compete in a minimum of three tournaments in order to earn credit for the course. Individual practices will be conducted in class. After school practice will also be required.

*Class members will automatically become part of Widefield High School's competitive speech team, recognized by the Colorado High School Activities Association; consequently, academic eligibility must be maintained in order to participate in tournament competition. Because of the extensive, out of class required activity, students who attend nine or more tournaments throughout the year, will be able to earn one elective English credit, in addition to earning a speech credit in the English department.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit COMM
Course Number(s)	18096	Prerequisite(s)	Beginning Oral Interpretation		

Film as Literature Great literature is often a precursor for great films. In this course, students will study several genres of literature and corresponding films. Students will be required to analyze both mediums to discover similarities and differences that exist between the two with special emphasis on structure, characterization, and development of theme. This course is intended to generate critical discussion and to inspire original thought while developing the skill of articulating eloquent and thoughtful analyses in order to prepare for college level analysis. Reading, writing, and in-depth discussions are the key components/skills of this class.

This course is an elective course. It cannot be used as an English credit towards graduation.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit (Elective)
Course Number(s)	26052	Prerequisite(s)	None		

Mathematics Department

Mathematics Overview

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	Required for Graduation: 3 Years of Math			Elective (Recommended for 4 Year Colleges)
Remedial Pathway(s)	Algebra I + Math Solutions	Algebra 2A	Algebra 2B	Statistics, College Algebra, Geometry, or Honor Pre-Calculus
	Algebra I + Math Solutions	Algebra 2	AP Pre Calc, College Algebra, Statistics, or Geometry	AP Statistics AP Calc Or Geometry
Traditional Pathway(s)	Algebra 1	Algebra 2		
Advanced Pathway(s)	Algebra 2 Or Honors Algebra 2 Trig	AP Pre Calc	AP Calc, Statistics, or AP Stats,	Statistics, AP Statistics, Geometry, AP Calc II
	Algebra 2 Or Honors Algebra 2 Trig	College Algebra	AP Pre Calc	Statistics, AP Statistics, Geometry, AP Calc

Mathematics Course Descriptions

Introduction to Pre-Algebra This class is designed to help students obtain the skills necessary for solving equations, combining expressions, fractions, rational numbers, decimals, and percentages. A student entering this class should be able to perform all whole number operations with 90% accuracy without the aid of a calculator.

*A scientific calculator is required.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	28073 A/B	Prerequisite(s)	Successful completion of Arithmetic Skills or teacher recommendation		

Pre-Algebra This course serves as a bridge between elementary mathematics and Algebra. Students will explore topics including integers, order of operations, proportions, percentages, linear equations and the basics of graphing. These skills will serve as the foundation of supporting master of algebraic concepts.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20040 A/B	Prerequisite(s)	Successful completion of Intro to Pre-Algebra or teacher recommendation.		

Algebra 1 Algebra I is designed to help students enhance their abstract thinking skills through the use of algebraic concepts (i.e. variables, setting up equations from word problems). Topics covered in this course are integers, solving equations and inequalities, factoring, combining rational expressions, graphing linear equations, real numbers, ratio and proportion, quadratic equations, exponents, and radicals.

*A scientific calculator is required. A graphing calculator is recommended. (TI 84 is recommended).

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20045 A/B	Prerequisite(s)	Successful completion of both semesters of Math 8 or Pre-Algebra		

Algebra II A This is the first of a two-year sequence of coursework. Together, the two years of Algebra IIA and Algebra IIB will be equivalent in content to the traditional one-year Algebra II. Topics will be the first half of those covered in the traditional one-year Algebra II course.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20051AB	Prerequisite(s)	Successful completion of Algebra I, or Algebra 1A and 1B sequence		

Algebra II B This is the second of a two-year sequence of coursework. Together, the two years of Algebra II A and II B will be equivalent in content to the traditional one year of Algebra II. Topics will be the second half of those covered in the traditional Algebra II course.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20052AB	Prerequisite(s)	Successful completion of Algebra II A		

Algebra II Algebra II is an extension of Algebra I, covering linear relations, linear functions and their graphs, absolute value equations and inequalities and their graphs, systems of equations and inequalities, quadratic equations and graphs, real and imaginary roots, rational polynomial expressions and operations on them, exponents, radicals, and basic properties, of and may cover logarithms, matrices, and trigonometry.

*A graphing calculator is required. (TI 84 is recommended).

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20050AB	Prerequisite(s)	Successful completion of both semesters of Algebra I or completion of Algebra 1A and Algebra 1B sequence		

Honors Algebra II/Trigonometry Algebra II Trigonometry is a robust extension of Algebra I, covering linear relations, linear functions and their graphs, absolute value equation and inequalities and their graphs, systems of equations and inequalities, quadratic equations and graphs, real and imaginary roots, rational and polynomial functions and their graphs, logarithms and an in-depth study of trigonometric functions and their graphs.

*A graphing calculator is required. (TI 84 is recommended).

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH W*
Course Number(s)	20057AB	Prerequisite(s)	Grade of A or B in Algebra I		

Geometry This is an elective math credit and should not interrupt the normal math progression. It can be taken in addition to another class that leads to completion of students' graduation requirement. For our first year, we are targeting students who have already completed their graduation requirement (Algebra IIA, II, Trig, Consumer Math and Math Today, MILL Certifications). This is an excellent option for students who enjoy working with shapes and are spatially oriented. This can also be a good option for students that want a change from the algebra-based courses. Topics include the concept of points, lines, planes, angles, triangles, congruence proofs, inequalities, perpendicular, parallel, quadrilaterals, exponents and radicals, polygonal regions, volume and areas, similar triangles, circles, spheres, and constructions.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20067AB	Prerequisite(s)	Algebra 1 or Algebra 1B		

College Algebra College Algebra includes the study of functions, relations, matrices, linear systems, conic sections, trigonometric functions and identities, patterns and recursion. Students solve problems by making connections and developing techniques that are meaningful to them. Emphasizes reasoning about mathematics in the context of experimental or real-world data. This will be done through the use of technology, Microsoft Excel, modeling and investigation approach, and working in cooperative groups.

*A graphing calculator is required. (TI 84 is recommended)

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20060 A/B	Prerequisite(s)	Prerequisite: Successful completion of both semesters of Algebra II or sequence of Algebra 2A & 2B		

AP Pre- Calculus Honors Pre-Calculus is a review and an in-depth study of some topics from previous mathematics courses. It includes a study of linear and polynomial equations, trigonometric functions, sequences and series, analytic geometry, and the use of graphing calculators to graph both polynomial equations and trigonometric functions. This course is weighted and requires out of class work for success.

*A graphing calculator is required. (TI 84 is recommended).

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits MATH W**
Course Number(s)	20081 A/B	Prerequisite(s)	Prerequisite: B or higher in both 1st and 2nd semester of Algebra II or a C+ in Algebra II Trig		

Statistics introduces students to random sampling, surveys, experiments, descriptive statistics, normal distributions, linear regressions, probability, and basic statistical inference. This course requires some out of class reading to be successful.

* A graphing calculator is required. (TI 84 is recommended)

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20085 A/B	Prerequisite(s)	Successful completion of Algebra II or Algebra 2A		

AP Calculus AP Calculus introduces students to differentiation, limits, integration, applications of transcendental functions, and continuity. In addition, many of the mathematical concepts and skills introduced in previous courses will be further developed. This course is weighted and requires out of class work for success.

*A graphing calculator is required (TI 84 or 89 is recommended).

NOTE: These courses meet pre-collegiate and exceed Colorado State Content Standards and are specifically designed to prepare students to take the AP examinations.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits MATH W**
Course Number(s)	20090 A/B	Prerequisite(s)	Successful completion of Honors Pre-Calculus or teacher recommendation.		

AP Calculus II Continuation of AP Calculus. Transcendental functions, techniques and applications of integration, Taylor's theorem, improper integrals, infinite series, analytic geometry, polar coordinates, parametric equations and vectors.

*A graphing calculator is required. (TI 84 is recommended).

NOTE: These courses meet pre-collegiate and exceed Colorado State Content Standards and are specifically designed to prepare students to take the AP examinations.

Course Length	Full Year	Grade(s)	12	Credit	2 Credits MATH W**
Course Number(s)	20093 A/B	Prerequisite(s)	Prerequisite: Successful completion of AP Calculus AB or teacher recommendation.		

AP Statistics Students will be introduced to the major concepts for collecting, analyzing, and extrapolating data and its implications. This is a demanding course that looks not only at how to get the answers but what to do with them when found. Students should expect to write extensively as well as explore and interpret real-world experiments, studies, and patterns. *A graphing calculator is required. (TI 84 is recommended).

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits MATH W**
Course Number(s)	20087AB	Prerequisite(s)	Successful completion of both semesters of Algebra II or Honors Alg. II/Trig.		

Consumer Math Consumer Math class is a Capstone course created for minimum competency requirements for graduation in the area of math. This class will focus on the basic skills such as understanding fractions, decimals & percentages, income calculation, budgeting, unit pricing, interest rates, purchasing and maintaining a vehicle, banking and investing, and understanding taxes. The course will also focus on ASVAB prep to provide multiple opportunities to demonstrate mathematics competency.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits MATH
Course Number(s)	20010 A/B	Prerequisite(s)	Has not met minimum math competency standards for graduation. i.e.: ASVAB (31), SAT (500 Math), Industry Certificate, Previous Capstone course		

Math Today Math Today is a Capstone course created for minimum competency requirements for graduation in the area of math. This class is a consumer-based math class taught primarily in an online format. The course covers the following topics: Semester 1: Basic Math Review, Personal Finance, Taxes & Insurance, Banking Services & Investments, and Banking and Credit Costs. Semester 2: Consumer Math review, Purchase/Sale of Goods, Leisure/Travel & Retirement, and Job-Related Services. There is a project for each topic culminating in an extensive budget project to complete the course.

Course Length	Full Year	Grade(s)	12	Credit	2 Credits MATH
Course Number(s)	20015	Prerequisite(s)	Prerequisite: Has not passed a class beyond Alg. I or Alg. IB and does not have 6 math credits (exception for students with a IEP/504)		

Science Department

Science Overview

Credits Color Key	
Green	Life Science Credit
Yellow	Earth Science Credit
Orange	Physical Science Credit

Pathway Courses for Graduation Credit

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	Required for Graduation: 3 Years of Science 1 Life Science, 1 Earth Science, 1 Physical Science			Electives
General Pathway(s)	Biology	Earth Science	Physical Science	
	Principles of Engineering	Principles of Engineering	Principles of Engineering	
Advanced & AP Pathway(s)	Honors Biology Or PLTW Principles of Biomedical Science	Honors Geology	Chemistry (Completion of Alg 1 Required)	
		AP Environmental Science	Honors Chemistry (Completion of Alg 2 Required)	
			Physics (Completion of Alg 2 Required)	
			AP Physics (Completion of Honors or AP Pre Calc)	
		Chemistry (Completion of Alg 1 Required)	Honors Geology	
		Honors Chemistry (Completion of Alg 2 Required)	AP Environmental Science	
		Physics (Completion of Alg 2 Required)		
		AP Physics (Completion of Honors or AP Pre Calc)		

Elective Courses

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
General Elective Courses			Astronomy	Astronomy
Advanced/AP Elective Courses		AP Biology	AP Bio AP Chem (Completion of Chemistry & Alg 2 Required) Honors Human Physiology	AP Bio AP Physics or Physics AP Chem (Completion of Chemistry & Alg 2 Required) Honors Human Physiology AP Environmental Science
PLTW Biomedical Pathway (10th-12th Grade Electives)			PLTW Principles of Biomedical Science	Human Body Systems (Pre Req: PLTW Biomed)
		PLTW Principles of Biomedical Science	Human Body Systems (Pre Req: PLTW Biomed)	Medical Interventions
		Human Body Systems (Pre Req: PLTW Biomed)	Medical Interventions	Biomedical Innovations

Science Course Descriptions

Biology In Biology various topics will be explored, such as ecology, biomolecules, natural selection, the cell, genetics and heredity, genetic technology, and human body systems. Students will participate in projects, laboratory exercises, and other activities. Every effort will be made to relate materials covered to student life and our society.

Course Length	Full Year	Grade(s)	9	Credit	2 Credits SCI
Course Number(s)	24005 A/B	Prerequisite(s)	None		

Honors Biology Honors Biology will include general topics of biology as outlined in general biology with an emphasis placed on open-ended / inquiry laboratory work, conducting authentic research, problem solving, and critical thinking. 21st Century skills will be an integral part of Honors Biology. Students will perform individual and group projects. (This course is more in-depth than general biology and more rigorous.) In order for students to be successful, they must have good attendance and study habits. Students who pass this course will earn a weighted grade.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits SCI W*
Course Number(s)	24025 A/B	Prerequisite(s)	None		

AP Biology AP Biology is a course designed for those students with a basic background in Biology and Chemistry who demonstrate a desire for advanced study in biology and an ability to do so successfully. It is equivalent to a first-year college biology course. Students will develop and refine the skills needed to understand and use biological concepts and vocabulary, use biological lab apparatus and techniques, carry out independent experimental research projects, communicate effectively in the subject area, analyze and solve biological problems, and become responsible, self-motivated learners.

NOTE: This course exceeds Colorado State Content Standards and is specifically designed to prepare students to take the AP Biology examination.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI W**
Course Number(s)	24020 A/B	Prerequisite(s)	Successful completion of Biology. Students are also encouraged to take Chemistry before or at the same time as taking AP Biology.		

Physical Science This entry-level course is designed to expose students to the physical world around them. The first semester will have emphasis on Chemistry and second semester will have an emphasis on Physics concepts. Emphasis is placed upon frequent classroom demonstrations, discussions, and many lab experiences throughout the year. It is set up to be a practical, hands-on course.

NOTE: Principles of Engineering can replace Physical Science.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI
Course Number(s)	24050 A/B	Prerequisite(s)	None		

Chemistry This course covers topics such as matter, atomic structure, the periodic table, bonding, chemical equations and reactions, and stoichiometry. Labs and activities are used frequently to enhance understanding of these concepts.

NOTE: Students should have access to a scientific calculator.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI
Course Number(s)	24055 A/B	Prerequisite(s)	Successful Completion of Alg. I		

Honors Chemistry Honors Chemistry will include general topics of chemistry as outlined in General Chemistry with the emphasis placed on open-ended/inquiry laboratory work, conducting authentic research, problem solving, and critical thinking. Students will perform individual and group projects. The ability to apply mathematical skills is very important.

NOTE: Students should have access to a scientific calculator.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI W*
Course Number(s)	24060 A/B	Prerequisite(s)	Successful completion of Algebra II		

AP Chemistry The course is designed to be the equivalent of the general chemistry course usually taken during the first college year. This course enables them to undertake as college freshmen, second-year work in the chemistry sequence at their institutions or to register in courses in other fields where general chemistry is a prerequisite.

NOTE: A TI-84 graphing calculator is recommended

NOTE: This course exceeds Colorado State Content Standards and is specifically designed to prepare students to take the AP Chemistry examination.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SCI W**
Course Number(s)	24065 A/B	Prerequisite(s)	Successful completion of general chemistry or honors chemistry and Algebra II with a C or better.		

Physics This course consists of a quick review of math, including scientific notation and significant figures, and measurement. Requires basic understanding of trig and algebra. Ability to graph and interpret graphs. The course covers an in-depth study of waves, sound, light, heat, forces, motion, work, kinetic theory, electricity, and magnetism. This class is an intensive lab course.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI
Course Number(s)	24070 A/B	Prerequisite(s)	Successful completion of Algebra II		

AP Physics The AP Physics course is equivalent to an intro level college physics course covering the following topics: Newtonian mechanics, motion, work, energy, waves & electricity. Knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus may be introduced in connection with physical concepts such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems will be the major goals of the course.

NOTE: This course exceeds Colorado State Content Standards and is specifically designed to prepare students to take the AP Physics examination.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SCI W**
Course Number(s)	24075 A/B	Prerequisite(s)	Pre-Calculus or instructor approval		

Earth Science Earth Science is divided into four main areas: astronomy, meteorology, geology, and oceanography. A wide variety of audiovisual aids, labs, lectures and activities are used to present these topics to the students.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI
Course Number(s)	24030 A/B	Prerequisite(s)	None		

Honors Geology This class will include general topics of Geology as outlined in General Geology with an emphasis placed on inquiry-based labs laboratory work, conducting authentic research, problem solving, and critical thinking activities relevant to today's society.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI W*
Course Number(s)	24037 A/B	Prerequisite(s)	None		

Honors Human Physiology This course consists of the study of structure and function of the human body. Instruction includes the use of laboratory activities including dissection of fresh as well as preserved specimens enabling students to visualize basic anatomical structures comparable to those in the human. Emphasis is placed on the physiology of the major organ systems.

NOTE: Students who pass this course will receive a weighted grade.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SCI W*
Course Number(s)	24016 A/B	Prerequisite(s)	Successful completion of Biology or PBS		

AP Environmental Science AP Environmental Science is a course designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

Note: This course exceeds Colorado State Content Standards and is specifically designed to prepare students to take the AP Environmental Science examination.

NOTE: Beginning with Class of 2027-can be taken to satisfy the Earth Science Requirement.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI W**
Course Number(s)	24085 A/B	Prerequisite(s)	Successful completion of Biology or PBS is required; however, it is recommended that students take chemistry before or at the same time as taking AP Environmental Science.		

Astronomy This course is an in-depth study of astronomical phenomena and related areas. Topics that are studied include constellations, the moon, seasons, light and telescopes, planets, stellar evolution, galaxies, and space exploration.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit SCI
Course Number(s)	24040	Prerequisite(s)	Algebra I or teacher recommendation		

Biomedical Pathway (PLTW) Course Descriptions

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future. Each course in the Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses. Schools offer the three PLTW Biomedical Science foundation courses within a period of three academic years from the start of implementation and may also offer the capstone course. Students who complete this program will have a competitive advantage when they apply to college, not only for the preparatory skills gained, but also because of PLTW's reputation for maintaining high standards.

All 4 Biomedical Sciences classes can possibly earn dual credit through UCCS. 3 Credits per Class

Principles of Biomedical Sciences Student's investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects intro-duce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9th or 10th grade students.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits SCI W*
Course Number(s)	30001 A/B	Prerequisite(s)	None		

Human Body Systems Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science inaction students build organs and tissues on askeletal Maniken®, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI W*
Course Number(s)	300021 A/B	Prerequisite(s)	Principles of Biomedical Sciences or teacher recommendation		

Medical Interventions Students will investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. A "How To" manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios, students will be exposed to the wide range of interventions related to Immunology, Surgery, Genetics, Pharmacology, Medical Devices, and Diagnostics.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SCI W*
Course Number(s)	30003 A/B	Prerequisite(s)	Principles of Biomedical Sciences and Human Body Systems		

Capstone Biomedical Innovations In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

Course Length	Full Year	Grade(s)	12	Credit	2 Credits SCI W*
Course Number(s)	30004 A/B	Prerequisite(s)	Principles of Biomedical Sciences & Principles of Human Body Systems and Medical Interventions		

BACE Lab Assistant Capstone A/B Lab Assistance gives students the opportunity to step into the role of research assistant through the extension of the following learning targets: Lab skills such as measurement, micro scoping, bacteria growth and management, and gel electrophoresis; Lab Procedures including execution, scaling, and equipment. Lab Safety including PPE, SDS, and waste disposal. Lab Management including equipment maintenance, lab organization, lab cleanliness, and inventory

management. Students will also complete certification in the BACE, biotechnician assistant credentialing exam, and have the extension opportunity to compete in Biotechnology and Clinical Laboratory Science through HOSA.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SCI W*
Course Number(s)	30005	Prerequisite(s)	Have to apply with teacher and have completed PBS/HBS		

Social Studies Department

Social Studies Overview

Class of 2026

		9 th Grade	10 th Grade	11 th Grade	12 th Grade
Full Year Courses	Required for Graduation	AP Human Geography (or Semester Geography)	World History or Honors World History	U.S. History or AP U.S. History	
	Electives			Psychology AP African American Studies	
Semester Courses	Required for Graduation	Social Studies 9 & Geography (Full year AP Human Geography)			Government or AP Government
	Electives			Economics Sociology	

Class of 2027 and Beyond

		9 th Grade	10 th Grade	11 th Grade	12 th Grade
Full Year Courses	Required for Graduation		World History or Honors World History	U.S. History or AP U.S. History	
	Electives	AP Human Geography		Psychology AP African American Studies	
Semester Courses	Required for Graduation				Government or AP Government
	Electives	Geography		Economics Sociology	

Social Studies Course Descriptions

Geography This course is a study of the environmental systems of climate, vegetation, soils, and landforms and the cultural aspects of world geography. Through a regional or thematic studies approach, human land interaction and spatial order are examined to explain the conditions that shape people's lives and affect people's futures. Geographic vocabulary and map skills are stressed.

NOTE: Geography or AP Human Geography is required for graduation for class of 2026.

Course Length	Semester	Grade(s)	9	Credit	1 Credit SOC SCI
Course Number(s)	25010	Prerequisite(s)	None		

AP Human Geography This is a college-level introductory course in Human Geography. Objectives of this course are to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the Earth's surface. Students will also learn how to employ the methods of geographers, including map-making, interpretation of spatial data and technical writing. Students will apply knowledge to spatial concepts, geographic vocabulary, and landscape interpretation to a variety of locations and situations around the globe and local areas. Final objective is to develop a "Geographic Perspective" with which to view the landscape and understand current events.

NOTE: Geography or AP Human Geography is required for graduation for class of 2026

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits SOC SCI W**
Course Number(s)	25013 A/B	Prerequisite(s)	None		

Social Studies 9 This Social Science class is divided into four-unit search lasting four weeks. Students will explore various resources for media, research, and current events followed by a brief exploration into Sociology, Psychology and Economics. Upon completion of this course, students will have a better understanding of these subjects and how they relate to their lives.

NOTE: Social Studies 9 is required for graduation for class of 2026.

Course Length	Semester	Grade(s)	9, 10	Credit	1 Credit SOC SCI
Course Number(s)	25007	Prerequisite(s)	None		

World History This course is a survey of world history from the Renaissance to the present. Topics include the Renaissance, Reformation, Exploration, Enlightenment, Industrialization, both World Wars, and the modern world with a focus on an ongoing analysis of the connection between the past and the modern world.

NOTE: World History or Honors World History is required for graduation.

Course Length	Full Year	Grade(s)	10	Credit	2 Credits SOC SCI
Course Number(s)	25015 A/B	Prerequisite(s)	None		

Honors World History Like the traditional World History course, Honors World History is a survey of world history from The Renaissance through the postmodern era. This course, however, requires the development of advanced historical inquiry skills for deeper understanding and preparation towards AP American History and AP European History. Upon completion of this course, the student will be expected to demonstrate proficiency in historical inquiry skills to include research skill specific to analysis, synthesis and evaluation of primary and secondary sources. To master these skills, the student will be responsible for significant outside reading and original research, which demonstrates advanced writing skills.

NOTE: World History or Honors World History is required for graduation.

Course Length	Full Year	Grade(s)	10	Credit	2 Credits SOC SCI W*
Course Number(s)	25020 A/B	Prerequisite(s)	Students must have successfully completed 9th grade social studies classes. Successful completion of Honors English 9 is strongly recommended.		

US History This course is a survey of world history from the Renaissance to the present. Topics include the Renaissance, Reformation, Exploration, Enlightenment, Industrialization, both World Wars, and the modern world with a focus on an ongoing analysis of the connection between the past and the modern world. Topics include: westward expansion, the Civil War and Reconstruction, WWI, the 1920s, WWII, the Cold War, the Vietnam War, and modern America.

NOTE: US History or AP US History is required for graduation.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SOC SCI
Course Number(s)	25027 A/B	Prerequisite(s)	None		

AP US History This course is a survey of the development of the United States from the pre-Colombian period to present. The reading requirements will be assigned from numerous primary and secondary sources. The teaching and study techniques have been chosen to prepare students to do superior work in college. The examinations and assignments will test students' ability to think, learn, and apply knowledge in creative and abstract ways. AP American History will be a constant challenge toward which you will be expected to continually apply yourself. The goals of this course are to lead students beyond the superficial exposure to a richer and deeper understanding and more lasting retention of knowledge, and provide the college-bound student with requisite skills to pass the AP exam in May.

NOTE: US History or AP US History is required for graduation.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SOC SCI W**
Course Number(s)	25031 A/B	Prerequisite(s)	None. Successful completion of Honors World History and Honors English 9 or 10 is strongly recommended.		

American Government This course is an in-depth look at the American governmental system. Citizenship, civil rights, and the political processes of American democracy are examined both at a national and state level. An emphasis is placed on current events that have a significant impact and domestic and foreign affairs. Critical analysis and higher-level thinking are required for this course.

NOTE: US Government or AP US Government is required for graduation.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit SOC SCI
Course Number(s)	25055	Prerequisite(s)	None		

AP US Government This is a college-level introductory course in U.S. Government. Central to the course is the concept of political interaction - the interaction of the political system and the socioeconomic structures of society. The course examines political interaction from four viewpoints: the basic governmental system; liberty, equality and justice; ideology and participation; and the governmental system in action. Other topics to be addressed may include things such as public policy and historical change.

NOTE: US Government or AP US Government is required for graduation.

Course Length	Semester	Grade(s)	12	Credit	1 Credit SOC SCI W**
Course Number(s)	25060	Prerequisite(s)	None		

Economics This is a broad ranging course that covers basic economic principles, encompassing a variety of business-related topics. This course is comprised of the fundamentals of economics, scope of business, economics systems and structures, banking, taxation, stock market, trade, and current economic dilemmas in the United States. In addition, this course will include personal finance, money management, investments, consumerism, and personal debt. Current events and real-world applications will also be strongly emphasized. The purpose of this course is to provide a fundamental understanding of economics and business in order to create responsible, informed and productive citizens.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit SOC SCI
Course Number(s)	25045	Prerequisite(s)	None		

AP African-American Studies This course looks to deepen the understanding and appreciation of the African-American historical experience and the role and contributions of African-Americans to the growth and development of the United States. This course offers opportunities to examine the historical significance of African-Americans from ancient origins through to this present day. AP African American Studies is designed to be the equivalent of an introductory college or university course in African American Studies and related courses, including Africana Studies, Black Studies, and African Diaspora Studies.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SOC SCI W**
Course Number(s)	25034 A/B	Prerequisite(s)	None		

General Psychology Psychology is a study of behavior and mental processes. This course furnishes insight and a better understanding of our own behavior. Topics to be examined include conditioning, memory, problem solving, motivation and emotion, body and behavior, altered states of consciousness, sensations a perception, development, personality theory, stress disorders, and therapy along with social psychology.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits SOC SCI
Course Number(s)	25035 A/B	Prerequisite(s)	Students must be Juniors and met credit requirements to be in the class for the full year.		

Sociology This course is a study of human relationships, their causes, and consequences. Topics examined are sociology as a science, society and culture, socialization process and organization, social group, social institutions, social interactions, social change, and application.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit SOC SCI
Course Number(s)	25040	Prerequisite(s)	Students must be Juniors and met credit requirements to be in the class		

Performing Arts Department

Band Course Descriptions

Concert Band This is a course for developing musicians who have at least 1 year of prior experience in a school band, or for beginner players with director approval. This ensemble performs Grade 1 to 2.5 level literature, and will primarily focus on building skills and techniques needed to advance to Symphonic Band. These include tone production, music literacy, and instrumental technique. Students are expected to practice outside of class time. All performance and rehearsal dates are required and include home concerts, festivals, and district concerts. Beginners should consult with the directors before enrolling in the class. Directors will guide beginners towards selecting an appropriate instrument, which will consist of flute, clarinet, trumpet, trombone/euphonium, or percussion. All students must provide their own instrument or rent one from the school's inventory.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22035 A/B	Prerequisite(s)	None		

Symphonic Band This course is for proficient musicians who have been selected to the course by audition with the directors. This ensemble performs Grade 2 to 4 level literature, and students are expected to practice outside of class time. All performance and rehearsal dates are required and include home concerts, festivals, and competitions. Participation in city, college, and state honor groups, as well as solo & ensemble, are all encouraged. Students will continue to develop tone production, music literacy, and individual and ensemble techniques required for performing class literature at an accomplished level.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22055 A/B	Prerequisite(s)	Concert Band, Concert Band II, and/or by audition		

Wind Symphony This course is for advanced musicians who have been selected to the course by audition with the directors. This ensemble performs Grade 3 to 5 level literature. Students are expected to practice outside of class time. All performance and rehearsal dates are required, and include home concerts, tours, festivals, and competitions. Participation in city, college, and state honor groups, as well as solo & ensemble, are all encouraged. Students will continue to develop tone production, music literacy, and individual and ensemble techniques required for performing class literature at an advanced level.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22046 A/B	Prerequisite(s)	Symphonic Band and/or by audition		

Jazz Band Jazz Band I is for proficient to advanced musicians who play saxophone, trumpet, trombone, piano, guitar, bass guitar, or percussion. Students are selected by audition and must concurrently enroll in another instrumental music ensemble (band or orchestra). Exceptions may be granted at the director's discretion. Jazz Band I performs intermediate to advanced jazz literature, ranging from traditional big band and jazz standards to contemporary commercial and jazz-adjacent music. Students are expected to practice outside of class time. All performances and rehearsal dates are required and include home and community concerts, festivals, and tours.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22050 A/B	Prerequisite(s)	By audition; concurrent enrollment in band or orchestra or director's approval.		

Jazz Band II Jazz Band II is a beginning level lab jazz ensemble for students who are interested in learning the techniques and skills to perform jazz and jazz-adjacent music. Current band students must concurrently enroll in a primary band course. All instruments are welcome; however, Jazz Band II is an appropriate course for doublers to learn a traditional jazz instrument. Practice outside of class time is expected. All performances and rehearsal dates are required, and include home and community concerts and festivals.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22051	Prerequisite(s)	Must be a current member of the band ensembles, or at director's discretion.		

Marching Band The marching band is open to any student who plays an instrument or who wishes to join the color guard. Marching band will serve as an elective credit and meets after school every weekday. The marching band performs at competitions around the state as well as at home football games, parades, and various community events. All performance and rehearsal dates are required. Summer activities must be attended, details of which are outlined in the spring enrollment packet. This is a physical class and requires movement, lifting, and a physical fitness level necessary for mild to moderate exertion outside in a variety of weather conditions. Accommodations can be made through prior communication with the directors. *NOTE: Students who successfully complete two semesters of marching band are eligible to waive one credit of P.E.*

Course Length	Semester / 9 th Hour	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22060	Prerequisite(s)	Participation in Summer Camps and director's approval required. (Audition for percussion and flags)		

Choir Course Descriptions

Ensemble Choir This course introduces the concepts of choral singing, and is a beginning choir. Students will be able to read choral music, understand basic music theory/concepts, and understand and produce vocal music by the completion of this course. Performances are required. Although members are often experienced (usually through junior high involvement), new singers are welcomed and can be successful.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22011 A/B	Prerequisite(s)	None		

Tenor Bass Concert Choir This course introduces the concepts of choral singing. Students will be able to read choral music and understand basic music theory concepts and understand and produce vocal music by the completion of this course. Performances are required and will include home concerts. Although members are often experienced (usually through junior high involvement), new singers are welcome and can be successful.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22008 A/B	Prerequisite(s)	None		

Treble Concert Choir This course introduces the concepts of choral singing at the high school level. This is an intermediate choir for students who have completed a year in concert choir, and are auditioned by the director, or have a recommendation from another director. The course introduces advanced independent sight-singing and aural recall. Many styles of choral music will be studied and performed. Concerts are required, as well as, tours and competitions.

Course Length	Full Year	Grade(s)	9,10,11,12	Credit	2 Credits PD/ELECT
Course Number(s)	22006 A/B	Prerequisite(s)	Audition Required		

Treble Ensemble This group of women's voices involves students who have completed the learning skills in Ensemble Choir or Treble Concert Choir. This course introduces the most advanced concepts in choral singing and music theory. Singers are experienced and able to sight-sing independently. The group studies all forms of vocal literature and styles. Performances are required and include home concerts, tours, and competitions.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22016 A/B	Prerequisite(s)	Audition Required		

Classic Chorale This group of Treble voices involves students who have completed the learning skills in junior high choir. The group mainly consists of 9th grade singers with junior high experience. Performances are required and include home concerts, and competitions.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22021 A/B	Prerequisite(s)	Junior High experience preferred but not necessary.		

Drama Course Descriptions

Beginning Drama This course is an introduction to basic theatre principles. Students will apply those principles through performances before their peers and through critiquing. Attendance to at least one high school drama production is required. One hour performing arts/general credit is given. Class may not be repeated.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22075	Prerequisite(s)	None		

Performance Communication This course 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.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22080	Prerequisite(s)	None		

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.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22086	Prerequisite(s)	Approval of Drama Teacher, "B" or better in Beginning Drama, "B" or better in Advanced Drama		

Theater Production This class is responsible for fulfilling the roles of a production team during the school year for multiple productions through the school year. The roles include stage manager, student director, props designer, costume designer, sound designer, lighting designer, and scenic designer. This class may be repeated each semester.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22011 A/B	Prerequisite(s)	None		

Orchestra Course Descriptions

String Orchestra String Orchestra is offered to students in grades 9-12 to continue and refine their study of string technique. Educational emphasis is placed on further development of music reading and comprehension skills, independent musicianship, style and deeper understanding of ensemble music. They will be introduced to orchestral literature of varying musical periods. Home practice and performances are required.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22025 A/B	Prerequisite(s)	None		

Symphonic Orchestra Symphonic Orchestra is offered to 9-12th grade orchestra students as a continuation for students with previous orchestral experience. Educational emphasis is placed on the advancement of instrumental technique, further development of music reading and comprehension skills, independent musicianship, style, and a deeper understanding of orchestral literature of varying musical periods. Home practice and performances are required and may include competitions.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22026 A/B	Prerequisite(s)	String Orchestra and/or by audition		

Philharmonic Orchestra Philharmonic Orchestra is offered to 9-12 grade orchestra students as an advancement of orchestral skill and technique. This orchestra is designed for medium-advanced level students who have a string orchestral background and demonstrate a proficient level of string technique and musical skills. Home practice and performances are required and may include competitions. Honors credit for the course is available by meeting additional requirements. Home practicing and performances are required.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22028 A/B	Prerequisite(s)	String Orchestra or Symphonic Orchestra or by audition		

Chamber Strings Chamber Strings is offered to 10-12 grade orchestra students who play at an advanced level. This orchestra offers students the opportunity to study and perform a variety of musical literature at an elevated of difficulty. Home practice is required, and students will be required to participate in a number of public performances throughout the year. Students may also have the opportunity to perform at solo and ensemble competition and audition for either All-City Honor Orchestra, All State Orchestra or both. Honors credit for the course is available by meeting additional requirements

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	22030 A/B	Prerequisite(s)	String Orchestra, Symphonic Orchestra or Philharmonic by audition only		

Honor Chamber Strings Orchestra students continue their study of string technique on the violin, viola, cello, or string bass. They will be introduced to orchestral literature of the baroque, classic, romantic, and contemporary eras of music. Home practice and performances are required and may include away concerts and competition in the spring.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits PD/ELECT W*
Course Number(s)	22031 A/B	Prerequisite(s)	Chamber orchestra and by audition only		

Performing Arts-General Course Descriptions

Piano Class Piano is a semester long course that has been created to develop students' keyboard skills so that their enjoyment and level of musical expertise will be enhanced. It is an independent study-type of instruction which allows each student to progress at his/her own pace. Any student is welcome in this class regardless of previous musical/piano experience. However, current music students are encouraged to take this class sometime during high school to further progress in skill development. Class Piano fulfills an elective requirement for Widefield High School.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22061	Prerequisite(s)	None		

Music Theory This course is for music students who wish to further their understanding of music theory, including notation, analysis, and composition. Some elements of music history may also be discussed.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22065	Prerequisite(s)	Prerequisites are at least one year of high school music classes, or previous experience singing or playing a musical instrument.		

Music Theory II This course is a semi-independent study allowing students to progress at their own pace. Basic mid skills will also be introduced allowing students to compose and arrange their own music. This course is for music students who wish to learn music theory. All students wishing to add to their musical understanding will benefit.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22066	Prerequisite(s)	Demonstrated proficiency in Music Theory		

Physical Education & Health Department

Physical Education Course Descriptions

9th Grade Physical Education This course is designed to promote skill development and implementation, as well as physical fitness, through a variety of indoor and outdoor activities. Emphasis is placed on successful and enjoyable lifetime participation in individual and team activities. Weight training will also be introduced as a lifetime activity with an emphasis on muscular development and safety. This course will provide an overview of the physical education program and will give students the necessary framework to participate in other physical education courses.

Course Length	Semester	Grade(s)	9	Credit	1 Credit PD/ELECT
Course Number(s)	23005	Prerequisite(s)	None		

Individual Sports The purpose of this course is to promote skill implementation in the various indoor and outdoor activities. The focus is on the development of those skills necessary for a lifetime of successful and enjoyable participation in the various individual & dual sports activities. A variety of conditioning aspects are reviewed.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23015	Prerequisite(s)	None		

Swimming This course is designed to develop both recreational skills and personal safety skills in the water. It will focus on the six swimming strokes and the cardiovascular benefits achieved from swimming. Additionally, students will engage in water aerobics and treading.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23030A	Prerequisite(s)	None		

Aerobics Aerobics refers to a system of exercises based on stimulating heart and lung activities for a time period long enough to produce beneficial changes to the body. The course provides alternatives to body fitness other than weight training. Cardiovascular strength and endurance are developed through continuous movement. Flexibility through stretching is also emphasized.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23010	Prerequisite(s)	None		

Team Sports This course focuses on the fundamentals and techniques of team sport activities. The development and implementation of skills necessary for a lifetime of enjoyable participation in team activities will be the focus. A variety of conditioning aspects will be reviewed.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23020	Prerequisite(s)	None		

Weight Lifting and Conditioning This course is designed for the student with an interest in changing their body composition and increasing their strength through resistance training. Students will engage in a curriculum based on improving muscle strength, muscle endurance, agility, speed, coordination training and cardiovascular endurance.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23035	Prerequisite(s)	None		

Lifeguarding This course provides entry-level participants the knowledge and skills to prevent, recognize and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries, and sudden illnesses until EMS personnel take over. Participants who successfully complete the Lifeguarding course receive an American Red Cross certificate for oxygen administration, valid for 1 year, and Lifeguarding/First Aid/CPR/AED, valid for 2 years. A student can still earn 1 elective credit even if they do not pass the American Red Cross Lifeguard test.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23031	Prerequisite(s)	Must be 15 years old at the completion of the course.		

Athletic Training Athletic training refers to the prevention, evaluation, treatment, and rehabilitation of athletic injuries. This course will provide the student with an opportunity to learn how to work with sport related injuries in both classroom work and practical experience in the training room. Students will also become Red Cross certified in first aid and cardiopulmonary resuscitation. **Required: 6 Hours Training room coverage and two sporting events*

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
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Course Number(s)	26030	Prerequisite(s)	None
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Health Course Descriptions

Health This course is the study of the whole person, including a person's mental and physical wellbeing. Human feelings, nutrition, alcohol, drugs, tobacco, personal safety, disease prevention, violence prevention, and human reproduction are among the topics, which will be taught. Students will gain knowledge, which will be valuable in making healthy lifestyle decisions.

NOTE: Health is required for graduation.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23040	Prerequisite(s)	None		

Summer Health Course (Hybrid) This course is the study of the whole person, including a person's mental and physical wellbeing. Human feelings, nutrition, alcohol, drugs, tobacco, personal safety, disease prevention, violence prevention, and human reproduction are among the topics, which will be taught. Students will gain knowledge, which will be valuable in making healthy lifestyle decisions.

NOTE: This class is a summer course and is part online part in person. This course will meet the health graduation requirement

Course Length	Summer	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	23040Summer Health	Prerequisite(s)	None		

World Language Department

German Course Descriptions

German I Students are gradually introduced to the primary skills of reading, writing, listening, and speaking. A beginner's +text, comics, songs, and games are used to teach about the Germans and their culture.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	19030 A/B	Prerequisite(s)	None		

German II This course continues the reading, writing, listening and speaking skills begun in German I. Speaking and comprehension skills are brought up to an intermediate level. Students begin to dissect complicated grammatical structures, and the student is ready to use the language with more confidence.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	19035 A/B	Prerequisite(s)	C or better in German I and/ or teacher recommendation		

Honors German III This course refines the student's speaking, reading, listening and writing skills both in style and grammar. The skills for normal communication are "polished" through the use of articles, short stories, recordings, and other forms of authentic literature.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits PD/ELECT W*
Course Number(s)	19041 A/B	Prerequisite(s)	C or better in German II and/ or teacher recommendation		

AP German Language and Culture The AP German Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP German Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of the language and culture, the course is taught almost exclusively in German.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits PR/ELECT W**
Course Number(s)	19042 A/B	Prerequisite(s)	C or better in German III and/ or teacher recommendation		

Spanish Course Descriptions

Spanish I The beginning class will focus on communicative competence. Students completing the course will use each of the four language skills of listening, speaking, reading, and writing. Additionally, cultural information will be presented throughout the course.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	19055 A/B	Prerequisite(s)	None		

Spanish II The second-year course builds upon the basic skills learned in level one. The four language skills will be used actively with an emphasis on reading, writing and speaking. Cultural information will be presented through the use of the textbook and supplementary materials.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits PD/ELECT
Course Number(s)	19060 A/B	Prerequisite(s)	C or better in Spanish I and/ or teacher signature		

Honors Spanish III The third-year course will further refine oral and written skills. Supplementary reading materials will be used in addition to the textbook.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits PD/ELECT W*
Course Number(s)	19066 A/B	Prerequisite(s)	C or better in Spanish II and/or teacher signature		

AP Spanish Language and Culture IV The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of the language and culture, the course is taught almost exclusively in Spanish.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits PD/ELECT W**
Course Number(s)	19067 A/B	Prerequisite(s)	C or better in Spanish III and/ or teacher recommendation		

AP Spanish Literature and Culture V The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretative), thereby honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, literary criticism).

Course Length	Full Year	Grade(s)	12	Credit	2 Credits PD/ELECTS W**
Course Number(s)	19068 A/B	Prerequisite(s)	C or better in Spanish IV and/ or teacher recommendation		

Elective Program Course Descriptions

Art

Foundations of Art and Design This semester course is designed for students who have minimal knowledge in art. Students will learn the basic elements and principles of design (examples include, line, value, texture, form, patterns, scale, special awareness, unity balance, color and proportion) that are the building blocks to a career in graphic design or commercial arts. Through critical thinking and problem-solving students will gain technical experience in color theory, 3D projects, and work with techniques on further developing right versus left brain (drawing upside down, comparisons).

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15006	Prerequisite(s)	None		

Free Hand Drawing I This class will teach students how to draw what they see, how to create the illusion of light and shadow, how to analyze visual elements such as linear perspective, texture and understand principals of composition, (i.e. movement, scale, and how to render accurate proportion). A wide variety of techniques and media will be explored including graphite pencils, charcoal, pastels, pen and ink, and colored pencils. Students will learn how to apply critical and creative thinking skills, problem solving skills, critiquing skills into their work. Students will also be required to create a portfolio as well as to participate in an end of the course with the community.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15010	Prerequisite(s)	None		

Painting In this course, students will explore various painting techniques, elements of composition, and color concepts. Materials used for painting representational, expressive, or abstracted images include but are not limited to watercolor and acrylics. Fundamentals of composition, color theory, and developmental skills will be emphasized. Art history is incorporated into the course through varied instructional media and resources.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15016	Prerequisite(s)	Foundations of Art		

Ceramics and Sculpture This is a class designed to explore three-dimensional form and become familiar with the tool, techniques, and materials of sculpture and ceramics. Course content will include but not limited to casting, carving, modeling, and assemblage with a focus on clay. Students will have an opportunity to focus on hand building or learning to throw pottery on the pottery wheel. Art history will be incorporated into the course through varies instructional media resources.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15020	Prerequisite(s)	None		

Advanced Techniques and Applications This course provides an opportunity to further develop techniques learned in previous art courses and to create projects with a more independent approach. The course will cover a wide range of mediums and techniques for students to explore. Students will have an opportunity to form a complex body of work, develop a personal artistic statement, and prepare a portfolio to submit for university or career purposes.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15045	Prerequisite(s)	Free Hand Drawing or Painting		

Commercial Photography I This course will introduce students to photography through a combination of lectures, demonstrations, assignments, and critiques. Students will learn to see photography through the demonstration of basic camera functions (aperture, shutter speed, lenses, depth of field) and techniques and aesthetics of photography (lighting and perspective). There will be an emphasis on the creative use of camera controls, exposure, and overview of film and digital processing, (printing and manipulating images in Photoshop, Illustrator and Animate). Using a DSLR camera students will have a more versatile means to take quality photographs of their work and better demonstrate their skills for future career opportunities.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15053 A/B	Prerequisite(s)	None		

Commercial Photography II This course will introduce students to photography through a combination of lectures, demonstrations, assignments, and critiques. Students will learn to see photography through the demonstration of basic camera functions (aperture, shutter speed, lenses, depth of field) and techniques and aesthetics of photography (lighting and perspective). There will be an emphasis on the creative use of camera controls, exposure, and overview of film and digital processing, (printing and manipulating images in Photoshop, Illustrator and Animate). Using a DSLR camera students will have a more versatile means to take quality photographs of their work and better demonstrate their skills for future career opportunities.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15053 A/B	Prerequisite(s)	Commercial Photography IA		

Graphic Design and Illustration I These courses are for training in the visual communication portion of a media businesses. Students learn about a career in the many kinds of media and graphic design and illustration jobs. Digital photography and working towards the intermediate level use of image editing and drawing programs are strongly focused upon in these classes. This is helpful for any future photographer, videographer, animator or advertiser. Students will begin developing a high-quality portfolio for college or design school.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15056 A/B	Prerequisite(s)	Commercial Photography I, Commercial Photography II, and/or art teacher recommendation. IA is required before IB		

Automotive

Maintenance and Light Repair A Automotive Maintenance and Light Repair (MLR) explores automotive industry standards and terminology, career opportunities and classifications, shop operations and safety, tool identification and usage, diagnostic equipment identification and usage, automotive systems, tires and wheels, braking systems, cooling systems, lubrication systems, and preventative maintenance. (Other possible topics could include automotive braking systems and the basics of electrical systems).

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	27006	Prerequisite(s)	None		

Compact Engines A Provides students with safety instruction in compact engine repair and preventative maintenance to include troubleshooting, diagnosis and general shop practices. Students also learn the operation and theory of 4- stroke engines and instruction on the proper methods of repair and engine overhaul. Additional coursework covered includes compression components, Carburetor function and theory as well as pneumatic and mechanical governing systems, ignition systems, diagnostics and repair. At the conclusion of the course students will disassemble and reassemble a fully functional engine to an optimum running condition

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	27011	Prerequisite(s)	None		

Automotive Service Technology I A/B Automotive Service Technology (AST) prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles at an INTERMEDIATE level. This course builds on concepts learned in Auto Basic, MLR, and/ or Compact Engines. Students receive instruction on basic automobile maintenance requirements, specific tool uses and safety procedures. Inspection and repair of automotive systems is stressed in the areas of brakes, electrical, suspension, fuel, emissions and tune up procedures.

Course Length	Full Year	Grade(s)	10, 11	Credit	2 Credits ELECT
Course Number(s)	27031 A/B	Prerequisite(s)	Maintenance and Light Repair A and/or Compact Engines A & approval of instructor		

Automotive Service Technology II A/B Automotive Service Technology (AST) prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles at an INTERMEDIATE level. This course builds on concepts learned in Auto Basic, MLR, and/ or Compact Engines. This course is designed to expand the knowledge and skills that the student achieved in Automotive Technology I. Each student will become proficient in advanced skills in the areas of electronic and computerized ignition systems, brake systems, and fuel systems. The students will continue to receive instruction in brakes, electrical/electronic systems, engine performance, and suspension and steering to continue to prepare them for the ASE certification exams.

Course Length	Year Course	Grade(s)	11, 12	Credit	2 Credits ELECT
Course Number(s)	27036 A/B	Prerequisite(s)	Automotive Service Technology I A/B & approval of instructor		

Business & Marketing

Accounting Principles I (*Class offered at Mesa Ridge) This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible assets accounting.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16031	Prerequisite(s)	None		

Accounting Principles IA This course builds on previous accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principle sand practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16031	Prerequisite(s)	Accounting Principles I		

Introduction to PC Applications This course provides an innovative and effective way to practice using Microsoft Office applications and learn the basics of computer technology. Simulated labs help students acquire and retain the basic skills they need to become proficient in Microsoft Word, Excel, Power Point, Access, and Outlook, the course is also designed to prepare students for the following Microsoft Office Specialist exams.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16056	Prerequisite(s)			

Principles of Marketing This course presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16071	Prerequisite(s)			

Event Marketing/Communications This course 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.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16076	Prerequisite(s)	Marketing Suggested		

Fundamentals of Web Design Students will learn the basic skills needed to design websites. Students will be guided through and demonstrate an understanding of web site production, structure, working with clients, interactivity, navigation, color schemes, user interface criteria, animations, accessibility, and hosting of websites. Students will create their own web sites using state of the art software.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16027	Prerequisite(s)	None		

Introduction to Business This course is an entry-level business class. The following topics will be studied on a basic level: ethics, finance, technology, careers, consumerism, checking accounts, budgets, credit, insurance, and investments. Students will relate key business concepts to their own lives as citizens, wage earners, and consumers.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16220	Prerequisite(s)	None		

Introduction to Social Impact This course will help student to develop knowledge and understanding of the emerging 4th Sector of the Economy: Business exists to deliver value to our society. For the first time in our lifetime, we are seeing the emergence of a new sector, for profit businesses that work to make our world a better place. Social Impact combines business strategies with purpose-based thinking. As more and more businesses and nonprofits move to this model, learn how you can apply this in your community and in your future. In this course, students will explore concepts such as: Business Ownership,

Intro to Social Impact; Ethics; Capitalism and Free Enterprise Evolution; History of Nonprofits. Learn how to create a sustainable business while doing well for communities.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16221	Prerequisite(s)	None		

Entrepreneurship This course 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

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16095	Prerequisite(s)	Marketing Suggested		

Personal Finance Students will learn how to read, understand and prepare financial statements, budgeting, funding vehicles for personal and business loans, consumer credit, commercial credit, insurance and risk management. Taxation and the role it plays in finance will also be integrated into the class. Students may opt to apply knowledge gained at a State or National DECA competition

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	16086	Prerequisite(s)	None		

Legal Environment of Business (*Class Offered at Mesa Ridge) Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit ELECT
Course Number(s)	16061	Prerequisite(s)	None		

Family & Consumer Sciences

Honors Teacher Cadet I Interested in teaching as a possible profession? Interested in the role education plays in society? If so, this is the class for you. Students will be involved in a fast paced, innovative, hands-on curriculum where they gain knowledge about teaching and learning. Teacher Cadets will develop and master skills that will be helpful in college and beyond, such as presentation, public speaking, writing, communication and reasoning. This is a yearlong, sequential honor selective course with college credit options. Each student will make a difference with children as they “try out” teaching in a “mini-teaching” experience. Passing this class with a B or better may qualify students for articulated credit at Pikes Peak State College. Please see the instructor for details.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits ELECT W*
Course Number(s)	27090 A/B	Prerequisite(s)	Application Process with Instructor		

Life Management Students will develop decision-making skills to become educated consumers with an understanding and academic knowledge of consumer resources and financial organizations. The course focuses on personal and family resources, job and career, personal and family finances, and wellness including cooking. (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.)

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	17007	Prerequisite(s)	None		

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

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	17022	Prerequisite(s)	None		

Nutrition and Wellness The purpose of the course is to develop lifelong, healthy individuals with an understanding and academic knowledge of wellness as a lifestyle, exercise and fitness, nutrition including cooking, and consumer products and

services. Emphasis is placed on implementing healthy nutritional choices, developing a fitness/wellness plan, integrating science principles as related to nutrition, and practicing wise consumer decisions.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	17041	Prerequisite(s)	None		

Catering I (*Course Offered at Mesa Ridge*) This program is designed for students with career interests in the food industry as well as owning their own catering business. The purpose of this course is to develop skills in quantity food preparation, safety and sanitation, planning, customer service, business plans and entrepreneurship.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	17038	Prerequisite(s)	None		

Catering 2 (*Course Offered at Mesa Ridge*) This program is designed to continue the skills for students with career interests in the food industry as well as owning their own catering business. The purpose of this course is to develop skills in quantity food preparation, safety and sanitation, planning, customer service, business plans and entrepreneurship.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	17039	Prerequisite(s)	None		

Career Technical Education (CTE) Course Descriptions

Digital Media & Communications Pathway

Digital Media I In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment. This class takes place in the school's media center.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	26021	Prerequisite(s)	None		

Digital Media II In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment. In the school's media center, students will continue to further develop the above skills with a deeper focus on career preparation.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	26022	Prerequisite(s)	Media Technology and Library Science 1		

Print Media A S1 Students demonstrate their understanding of a variety of programs and occupations in print media using digital tools that are widely available in professional publication work. Focus is on producing content for reader-oriented publications. Instruction will be paired with hands-on lab experiences in community reporting, both verbal and visual.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits COMM (Composition)
Course Number(s)	26050A	Prerequisite(s)	Teacher Recommendation		

Print Media B S2 This course is recommended for students who have completed Print Media I and who want to develop their leadership skills while expanding on various modes of reporting and creating print media for specific audiences. Instruction will be paired with hands-on lab experiences in community reporting.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits COMM (Composition)
Course Number(s)	26050B	Prerequisite(s)	Completion of Print Media A S1		

Audio/Video Pathway

Foundations of Multimedia Productions 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.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22052	Prerequisite(s)	None		

Introduction to Sound Mixing A/B This course introduces students to setup and takedown of audio equipment, soundcheck, and management of audio volume and sound quality of various productions. Standards in this course include the ability to obtain a Pro Tools Certification, an overview of the history and evolution of sound mixing.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22053 A/B	Prerequisite(s)			

Sound Engineering and Design A/B Explores the steps in audio production following the initial sound capture and overdubbing of sound. Key concepts include sound design, mixing, and addition of effects. Integration of music with pictures is also discussed, and key concepts such as automatic dialogue replacement, foley, score, and voiceover recording are covered.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22054 A/B	Prerequisite(s)			

Music Business Internship Music Business Internship will provide an introductory overview of the commercial music industry, including its history and development within the context of the production of multiple popular and traditional styles. Students will consider how music (as well as musicians) has evolved into “product.” In an effort to give students a sense of practical direction for their futures, the course will also include an exploration of the various career options within the music industry. A capstone will be included to fulfill the requirements of this course.

Course Length	Semester	Grade(s)	11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	22059	Prerequisite(s)			

Audio/Visual Production IA This course explores the Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry-level employment in video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student lead productions. Students will be involved in every aspect of several class and small group audio, video, film, style production projects with emphasis on learning how to use Adobe Premiere Pro.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	26048	Prerequisite(s)	None		

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

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)	26047	Prerequisite(s)			

Broadcast Productions In Broadcast Production course, students will examine the techniques and technologies involved in creating multi-camera shoots for the news and narrative broadcast television genres. Students will explore the unique logistical, structural, and aesthetic methodologies that distinguish broadcast production from other types of production. (This is KWHS News Productions class.)

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	1 Credit PD/ELECT
Course Number(s)		Prerequisite(s)	None		

Cabinet Manufacturing Pathway

Cabinet Manufacturing 1 In the first semester, students build a basic plywood and hardwood cabinet using Lean Manufacturing principles. Students learn to use a tape measure, produce drawings, create a bill of materials, and use state-of-the-art machinery safely. The cabinet includes a hardwood face frame, legs, door, drawer and tabletop. Assembly of the cabinet utilizes rabbet and dado joinery construction. In the second semester, students build a small profile table from solid hardwoods using Mortise and Tenon joints. Advanced manufacturing equipment and methods are taught to continue students’ learning of the processes involved in Lean Manufacturing and dimensioning lumber. The table includes a dovetail-jointed drawer, as well as Greene & Greene style accents that include Blacker leg indents, knuckle legs, and cloud lift style aprons. The top is made from either solid hardwood or plywood that is edge banded with solid hardwood. *NOTE: Course taught at the MiLL*

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits ELECT and 2 CTE Math Credits
Course Number(s)	27011 A/B	Prerequisite(s)	None		

Cabinet Manufacturing 2 In the first semester, students continue Lean Manufacturing practices to build a Skills USA cabinet. The cabinet features Mortise & Tenon joinery produced on the three-axis JDS Multi Router. It has an edge banded plywood carcass, five-piece door, dovetailed drawer, external four-piece legs, and veneered Plywood top. In the second semester, students advanced to a larger, more detailed credenza cabinet inspired by the works of James Krenov. The cabinet consists of an edge-banded plywood carcass with multiple divisions for fixed and adjustable shelves, two internal drawers affixed with drawer slides, two five-piece profiled doors, a breadboard top and crown moldings. The legs are shaped using a band saw and spindle sanders and are attached externally. Students use several different joineries to assemble the carcass, drawers, and doors.

NOTE: Course taught at the MiLL

Course Length	Full Year	Grade(s)	10,11, 12	Credit	2 Credits ELECT and 2 CTE Math Credits
Course Number(s)	27012 A/B	Prerequisite(s)	Cabinet Manufacturing Year 1		

Cabinet Manufacturing 3 In Cabinet Manufacturing Year 3, students continue Lean Manufacturing, learning Computer Aided Design (CAD) software and Computer Aided Manufacturing (CAM) processes using Computer Numerical Control (CNC) Routers to cut cabinet parts. Students will begin work on one large group project, collaborating on the design, material processing and construction of cabinets for a small kitchen and two bathrooms of a modular home. These cabinets will be installed as part of the school district’s modular home build program. For a take-home project, students are tasked with taking an existing plan for a tool chest, modifying that plan in CAD, generating machining codes for CAM, and generating reports for materials, labor and production cost. Students will learn and be expected to bid the project, establish timelines, price out materials, as well as continue to learn new techniques involved with cabinet manufacturing. The carcass of the tool chest will also be cut on a CNC router; then assembled and personalized before a finish is applied. In addition to building their tool chest, students will be given plans for shop-made hand tools to begin to fill their tool chest. As much work as practical and possible will be done on CNC routers. *NOTE: Course taught at the MiLL*

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits ELECT and 2 CTE Math Credits
Course Number(s)	27013 A/B	Prerequisite(s)	Cabinet Manufacturing Years 1 and 2		

Cabinet Manufacturing 4 In Cabinet Manufacturing Year 4, students continue Lean Manufacturing, learning Computer Aided Design (CAD) software and Computer Aided Manufacturing (CAM) processes using Computer Numerical Control (CNC) Routers to cut cabinet parts. Students will begin work on one large group project, collaborating on the design, material processing and construction of cabinets for a small kitchen and two bathrooms of a modular home. These cabinets will be installed as part of the school district’s modular home build program. For a take-home project, students are tasked with taking an existing plan for a tool chest, modifying that plan in CAD, generating machining codes for CAM, and generating reports for materials, labor and production costs. Students will learn and be expected to bid the project, establish timelines, price out materials, as well as continue to learn new techniques involved with cabinet manufacturing. The carcass of the tool chest will also be cut on a CNC router; then assembled and personalized before a finish is applied. In addition to building their tool chest, students will be given plans for shop-made hand tools to begin to fill their tool chest. As much work as practical and possible will be done on CNC routers.

NOTE: Course taught at the MiLL

Course Length	Full Year	Grade(s)	12	Credit	4 Credits ELECT
Course Number(s)	27014 A/B	Prerequisite(s)	Cabinet Manufacturing Years 1, 2 and 3		

Construction Technology Pathway

Construction Technology A/B The first year of the construction pathway is for students who want to develop skills common to the construction trade. Students receive in-depth instruction in the use of hand and power tools. They perform practical exercises on a wide variety of equipment commonly used in the construction trade. Students acquire basic drafting skills and learn to read and understand architectural plans. Students learn the basics of materials use, cost, and estimating for a variety of projects. Students are expected to demonstrate their knowledge through the construction of required projects. A special emphasis is placed on safety for the construction trade.

NOTE: Course taught at the MiLL

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits ELECT and 2 CTE Math Credits
Course Number(s)	27023/27024	Prerequisite(s)	None		

Mech/Elec/Plumbing Systems A/B The second year of the construction pathway is for students who want to develop skills common to the construction trade. Students will learn the basics of Electricity/Electronics, including instruction in the theory of electricity and in the terminology, skills, and safety procedures common to careers involving electricity and electronics. Topics include (but are not limited to) Ohm’s law, electrical equipment, wire systems, and so on; career exploration is an integral part of the courses. Students will also learn the basics of plumbing. This course will provide students with instruction in installing waste and vent systems, water and gas pipes, trim, and fixtures. Skills taught include cutting and joining various types of pipe (for instance, steel, plastic) using various methods (cement, seat method, and so on).

NOTE: Course taught at the MiLL

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	1 Credit ELECT, 2 CTE Math Credits, 1 CTE Physical Science Credit
Course Number(s)	27026/27027	Prerequisite(s)	Construction Technology A/B, OSHA-10 Certification		

Carpentry Technology II A/B The third year of the construction pathway is for students who want to develop skills common to the construction trade. Students will learn the basics HVAC, including instruction in skills and safety procedures common to careers involving construction, HVAC mechanics, troubleshooting, repair of HVAC systems and their components (e.g., motors, filtration devices, intake & exhaust fans, ducts, ductless splits, wiring, pipes, vacuums, heat pumps, hermetic compressors, economizers, and loop systems).

NOTE: Course taught at the MiLL

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits ELECT, 1 CTE Math Credit, 1 CTE Physical Science Credit
Course Number(s)	27028/27029	Prerequisite(s)	Construction Technology A/B, Mech/Elec/Plumbing Systems A/B, HBI Year 2 Certification		

Construction Technology II A/B The fourth year of the construction pathway is for students who want to develop advanced skills common to the construction trade. Students learn the basics of masonry, painting and finishing, landscaping, and weatherization, as well as instruction in skills and safety procedures common to careers involving construction. Topics include (but are not limited to) mixer operation, masonry saw use, measuring and cutting use of power aerators, dethatches, chemical and environmental impacts, as well as sealants, coatings, fillers, energy leaks and weatherization tools.

NOTE: Course taught at the MiLL

Course Length	Full Year	Grade(s)	12	Credit	3 Credits ELECT, 1 Credit COMM
Course Number(s)	27030/27032	Prerequisite(s)	Construction Technology A/B, Mech/Elec/Plumbing Systems, HBI Year 2 Certifications, Carpentry Technology II A/B, HBI Year 3 Certifications		

Welding Pathway

Intro to Welding Tech This introductory welding class teaches students the basics of Oxy-Acetylene welding and cutting, Wire Feed/Mig welding, SMAW (stick arc welding) and Plasma cutting. It also covers general and welding safety as well as general metal working procedures.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	27016	Prerequisite(s)	None		

Welding Technology A/B Welding Technology A/B is a one-year course with no prerequisites. This course begins with safety training, and introduces welding areas of operation such as arc (stick), and wire feed (MIG), along with the forming, grinding, cutting, and polishing of mild steel. Students will also learn how to properly use the oxyacetylene torch and manual handheld plasma cutter. Students will work through labs to prepare them for industry standards in welding. Students will also receive training on reading weld plans, symbols, and procedures. Students utilize multiple metal working and welding processes to create a customized final project. *NOTE: Course taught at the MiLL*

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	27009 A/B	Prerequisite(s)	None		

Welding Technology II A/B In this course, students will be exposed to more advanced welding process such as MIG/GMAW, as well as an introduction to TIG welding. In addition, they will have the opportunity to refine what they learned from Level I to a higher standard. Students will identify welding symbols on drawings, read detailed drawings, identify physical characteristics and mechanical properties of metal, explain pre and post heating of metals, identify equipment and filler metals utilized in GMAW, as well as prepare welding test plates. Through the course of the year, students will have the opportunity to create more advanced welding projects for the community as well as private individuals.

NOTE: Course taught at the MiLL

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	27008 A/B	Prerequisite(s)	Welding Technology A/B		

Welding Technology III A/B Welding III A/B builds upon the previous welding sections and begins to develop students to pass industry certifications in different welding positions/techniques. Students will choose the technique(s) they wish to pursue certifications in and practice those positions for a certification exam later in the year that is recognized within industry and will be administered/approved by a Certified Welding Inspector (CWI). The second semester of Welding III will focus on

Quality Control. The students will receive hands-on and classroom instruction in Non-Destructive Testing (NDT) disciplines of Magnetic Particle, Liquid Penetrant, and Ultrasound Testing. Students will receive Level I/IIA classroom qualifications in Ultrasound Testing, and Level II classroom qualifications in Liquid Penetrant and Magnetic Particle. *NOTE: Course taught at the MiLL*

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits ELECT
Course Number(s)	27007 A/B	Prerequisite(s)	Welding Technology A/B, Welding Technology II A/B		

Computer Science Pathway

AP Computer Science Principles AP This course is an introductory college-level computing course. Students receive an overview of computer science topics in order to prepare them for deeper study. They learn and design their own solutions to computer science problems and then evaluate them for effectiveness. Students also learn the fundamental abstract and concrete concepts of a variety of topics and then explain how computing and innovation work, impact the world at large, and contribute to a “computing culture that is collaborative and ethical”. Course content provides students a solid foundation to pursue deeper learning and animation, engineering, music, app development Culminates in PCEP CDIP Certification.

NOTE: The course also covers all objectives necessary to pass the Certified Entry-Level Python Programmer (PCEP) certification exam.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credit ELELCT
Course Number(s)	20096 A/B	Prerequisite(s)	None		

Computer Science Foundations Computer Science Foundations (CSF) 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.

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	16177A	Prerequisite(s)	None		

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

Course Length	Semester	Grade(s)	9, 10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	6291	Prerequisite(s)	None		

Cybersecurity I Cybersecurity I is a course intended to teach students the basic concepts of cybersecurity. The course places an emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management. The fundamental skills in this course cover both in house and external threats to network security and design, how to enforce network level security policies, and how to safeguard an organization’s information. Upon completion of this course, proficient students will demonstrate an understanding of cybersecurity concepts, identify fundamental principles of networking systems, understand network infrastructure and network security, and be able to demonstrate how to implement various aspects of security within a networking system.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT W*
Course Number(s)	29010 A/B	Prerequisite(s)	IT Fundamentals or AP Computer Science Principles (or Instructor Approval)		

Engineering (PLTW) Pathway

Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in postsecondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. They will also learn how engineers address concerns about the social and political consequences of technological change. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is all about and to answer the question “Is a career in engineering or engineering technology for me?”

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits ELECT W* (Also counts for Physical Science Credits)
Course Number(s)	29002 A/B	Prerequisite(s)	None		

Aerospace Engineering This course propels students’ learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits ELECT W*
Course Number(s)	29003 A/B	Prerequisite(s)	POE or Instructor Approval		

Civil Engineering & Architecture Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits ELECT W*
Course Number(s)	29005 A/B	Prerequisite(s)	POE or Instructor Approval		

Capstone Engineering Design & Development The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

Course Length	Full Year	Grade(s)	11, 12	Credit	2 Credits ELECT W*
Course Number(s)	29014 A/B	Prerequisite(s)	Civil Engineering or Aerospace or Instructor Approval		

Computer Assisted Drafting (CAD) This course gives students the opportunity to learn Mechanical and Architectural drawing using Auto CAD. The students will develop CAD skills to draw floor plans, working drawings, blue prints, and other objects. Applied mathematics will be incorporated with dimensioning as they apply to specific drawing fields. This class is recommended to students interested in pursuing an Engineering field, Architecture, Computer Animation, Structural design and Computer Graphics.

NOTE: This class is articulated with Pikes Peak Community College for college credit.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	27070	Prerequisite(s)	None		

Flight Training

Glimpse into Flight Training Falcon AeroLab's Glimpse into Flight Training (GIFT) course is a comprehensive educational program designed to provide aspiring pilots with the fundamental knowledge necessary for safe and successful flight operations. Through a firsthand look at the world of aviation, we hope to pique student interest in the field and serve as an introduction to aviation as a potential career.

Ground school typically serves as the initial step in a pilot's training journey and covers a wide range of topics related to aviation, such as: fundamentals of flight, aircraft systems, navigation, meteorology, aeronautical regulations, aircraft performance, flight planning, aviation safety, human factors, communication (ATC), emergencies and procedures and safety. This semester- long ground school course will prepare students to take the Federal Aviation Administration's (FAA) written examination for Private Pilot License. During this course, students will also receive three instructional flights with a Certified Flight Instructor.

Throughout their three flight lessons, students can expect exposure to these skills: safety, preflight inspections and aircraft familiarization, taxiing, takeoff, and landing procedures, straight and level flight, climbs, descents, and turns, and basic flight maneuvers the flight training portion also serves as reinforcement of the concepts they learned throughout the semester in ground school.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	15001	Prerequisite(s)	None		

Naval Junior Reserve Officer Training Corps

NJROTC I NJROTC I is a co-ed beginning program in Naval Junior ROTC containing academic, service education, and military instruction. The academic portion includes customs, traditions, courtesies, organization, citizenship, leadership, naval missions, and U.S. Government. Community service (service education), participation in the cadet corps activities, and field trips are required. Trips include visits to a naval base and local military bases to promote awareness of technology, principles of teamwork, and application of classroom subjects. The military portion includes basic drill, physical fitness, military bearing, and courtesies. The naval uniform must be worn, for the full school day once a week. Uniforms and tests are provided. Basic standards of military grooming are required. Top academic performance and continuing education as goals are the focus of this program.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	21005 A/B	Prerequisite(s)			

NJROTC II This co-ed course is an expansion of NJROTC I, which includes maritime history, maritime geography, oceanography, meteorology, astronomy and physical sciences. Community service (service education), unit participation, and field trips are required. Fieldtrips include visits to, local military bases and “high-tech” businesses to promote awareness of technology, principles of teamwork, and application of classroom subjects. Computers will be used to prepare presentations. Grooming and uniform requirements are the same as Naval Science I. Continuing education as a goal is the focus of this program. Students must maintain a “C” average to remain in the program.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	21010 A/B	Prerequisite(s)	Sports physical required. NJROTC I		

NJROTC III This course involves instruction in seamanship, meteorology, and advanced leadership and draws upon the skills mastered in NJROTC I and II. Maritime history, leadership, astronomy, and other military subjects from a Naval perspective are also covered. Students in this course are charged with the mid-level leadership and administration of the Cadet Corps and the extracurricular programs. Grooming and uniform requirements are the same as Naval Science I. Continuing education as a goal is the focus of the program.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	21015 A/B	Prerequisite(s)	Sports physical required. NJROTC II and approval of the NJROTC Instructor		

NJROTC IV This course builds on the basic qualities of a good follower and an effective leader provided in Naval Science I, II, and III. The student will take a more in depth look at leadership principles, traits, and practices. Case studies and seminar techniques are used in the classroom. Students will learn how to maximize leadership skills following the leadership curriculum used in college level ROTC and at the Naval Academy. Students are expected to provide leadership to the Naval Science I-III cadets.

Course Length	Full Year	Grade(s)	12	Credit	2 Credits ELECT
Course Number(s)	21020 A/B	Prerequisite(s)	Sports physical required. NJROTC III and approval of the NJROTC Instructor		

Naval Science Enrichment This is an advanced leadership-training program in Naval Junior ROTC focusing on military precision and exhibition drill ceremonies, physical training, and community service. Field trips for community performances and inter-school competition of military drill and academic events are included as well as experiential visits to military and civilian organizations. Students will form into performing teams to execute precision, exhibition, and armed, unarmed, color guard, and competitive drill. Students will perform at civic, community, and military ceremonies. Students will be eligible for a school letter if criteria for participation and competitive performance are maintained. Student’s research and report on current events and leadership as well as the history, tradition, and customs of naval and military ceremonies. Military standards of grooming and appearance will be required of the student. Students will be required to participate in fund raising activities to acquire special uniform items and to defray the cost of field events.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	21025 A/B	Prerequisite(s)	Sports physical required. NJROTC I (1 semester) and currently enrolled in NJROTC I, II, or III. NJROTC instructor approval is required.		

Non-Pathway Electives

Student Cabinet This course offers students training in leadership, problem solving, and large group decision-making. Students will also have opportunities to attend leadership workshops through CHSAA and other civic groups in the community. Students will learn and practice the principles of democratic government.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	26010 A/B	Prerequisite(s)	Application Process		

Yearbook In this course student will learn and practice journalistic and industry standards for yearbook production. This course will teach skills in standard journalistic yearbook writing, interviewing, organization, team cooperation, page layout design, photography, and skills for using various types of computer equipment and software such as Online Design, Photoshop, and email.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	26055 A/B	Prerequisite(s)	Application Process		

Student Assistant Student assistants will be used in the following areas: Attendance Office, Main Office, Counseling Center, and by teachers. Assistantships are designed to provide experience and opportunities to students in the operations of office and classroom management. Only one assistantship can be scheduled per semester per student. Students must apply and be accepted to serve in this capacity. A maximum of three credits can be accumulated toward graduation.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	2 Credits ELECT
Course Number(s)	26014 A/B	Prerequisite(s)	None		

Study Hall Study hall is a non-credit offering during the regular school day to give students extra time to study.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	No Credit
Course Number(s)	26005 A/B	Prerequisite(s)	None		

College & Career Program Descriptions

Concurrent Enrollment

Career Start Program at PPSC The Career Start Program at Pikes Peak State College provides occupational skill development and training for senior high school students from all over the Pikes Peak region. In addition to teaching career-technical skills, the Career Start Program strives to prepare students for the world of work by teaching the related academics and workplace basics that are essential for employment. Instruction is provided in classrooms, laboratories, and in business and industry. High schools across Colorado Springs send students to Pikes Peak State College to partake in the various programs offered through career start. All instructors in the Career Start Program are occupationally experienced and vocationally credentialed.

Students attending the Career Start Program earn credit, which can be applied toward high school graduation. Curriculum for the courses is a compilation of various entry-level college courses for that particular area of study. The number of courses covered within each program and the grades students achieve within those individual courses throughout the year will determine the amount of college credit received. This college credit may be applied to a post-secondary certificate or degree.

Classes follow a typical 5-days-per week schedule and run two hours and forty minutes daily. While some programs offer a second year of Career Start curriculum, all programs can be continued at the collegiate level following graduation. Please note that students can be a senior and enroll in the first year of a two-year program. College credit earned during enrollment in the Career Start Program relates directly to the post-secondary sequence of courses.

To apply, contact the College & Career counselor at WHS. The application process occurs in January and February for the next school year.

Career Start Programs:

- Automobile Collision Technology
- Fire Science Technology
- Automobile Service Technology
- Health Careers Exploration
- Construction
- Health Science Technology/CAN Prep
- Criminal Justice
- Multimedia Graphic Design
- Culinary Arts
- Veterinary Assistant
- Cyber Security
- Welding
- Diesel Power Mechanics
- Zoo Keeping
- Early Childhood Education

Course Length	Year Long	Grade(s)	12	Credit	3 Credits at PPSC = 1 WHS Elective
Course Number(s)	26060	Prerequisite(s)	Students must apply and meet graduation requirements prior to participation in the program.		

Concurrent Enrollment Concurrent Enrollment is a great opportunity that provides high school students the chance to earn college or vocational credit toward a certificate or degree at a Colorado college. The credits also count toward a high school diploma.

What do you need to know before applying?

1. Students in the 11th or 12th grade must have the approval of high school counselor and college and career counselor.
2. Placement in college courses will depend on student individual career and academic plan, courses taken at Widefield on their pathway, and schedule availability.
3. Classes must be college level (remedial or basic skills courses are not eligible for Concurrent Enrollment).

How and When do I sign up for CE Courses?

1. Students must turn in completed applications to the CE counselor at WHS by the end of November for the spring semester and by the end of May for the fall semester.
2. For full details see the College & Career counselor in the WHS counseling center.

Special Program - International Salon and Spa Academy (ISSA)

COSMETOLOGY: Cosmetology offers a career filled with endless, lifelong opportunities with financial stability and flexible schedules. You may find yourself doing hair and makeup in professional photo or video shoots or showing off your creative talents as a platform artist in competitions. Maybe your path is owning your own salon or spa one day.

Course Length	Semester	Grade(s)	11, 12	Credit	3 Credits at PPSC = 1 WHS Elective or Equivalent Core Credit
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Course Number(s)	26060	Prerequisite(s)	Students must apply and meet graduation requirements prior to participation in the program.
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Dual Credit (CU Succeed Program) The CU Succeed program is a unique opportunity for students to earn college credit while attending high school classes. Widefield High School has partnered with both the University of Colorado at Colorado Springs (UCCS) and the University of Colorado at Denver (UCD) to provide this opportunity for students. Students who choose the dual credit option will be required to pay tuition to the university at a reduced rate. Most classes are three to four credit hours. It is important to note that the universities provide the guidelines for how students are graded on these courses; therefore, the rigor is greater in these courses than in a traditional high school course. Upon completion of the course, students will have a college transcript that will be accepted by most, of the public colleges and universities in the state of Colorado. Students who are considering going to a private school or attending college out of state should consult with their counselor prior to registering for dual credit.

Courses offered for Dual Credit: ----

- AP U.S. Government
- AP U.S. History
- AP Biology
- AP Calculus AB
- AP Calculus II BC
- AP Computer Science Principles
- AP Environmental Sciences
- AP Pre-Calculus
- AP Spanish Language
- AP Spanish Literature
- AP Statistics
- AP German Language & Composition
- PLTW Bio Med Courses
- PLTW Engineering Courses

Course Length	Semester or Year	Grade(s)	10, 11, 12	Credit	3 College Credits = 1 Core or ELECT Credit
Course Number(s)	See Course Description	Prerequisite(s)	None		

Work Based Learning

Work Based Learning. Students build on prior knowledge and skills in the program of study to further developed apply employability and technical skills that prepare them for success in future career and postsecondary education. The Work Based Learning (WBL) for credit is a school to career partnership that provides opportunities for WSD3 students to gain work and/or career experience through a wide variety of partnerships with business, industry and the community.

While WBL encompasses a wide variety of choices for students, WBL for credit, in conjunction with CTE programs can help students build skills and credentials that meet industry demand and prepare them for high skill, high wage jobs and careers. Students can earn up to two credits per semester if they meet the requirements.

Hour requirements are as follows to receive credit: Paid and volunteer work, 60 hours for 1 credit or 120 hours for 2 credits. (Maximum of 2 credits per semester.)

Course Length	Semester	Grade(s)	11, 12	Credit	Up to 2 Credits
Course Number(s)	16117 A/B	Prerequisite(s)	None		

Courses Not Being Offered

Courses Not Being Offered for the 2025-2026 School Year

Geology This is a more detailed and in-depth coverage of geologic topics introduced in the Earth Science course. The course covers mostly physical geologic concepts, but some time is spent on historical geology. Environmental problems will be discussed throughout the course.

Course Length	Full Year	Grade(s)	10, 11, 12	Credit	2 Credits SCI
Course Number(s)	24035 A/B	Prerequisite(s)	None		

Algebra 1A This is the first of a two-year sequence of course work. Together the two years of Algebra IA and Algebra IB will be equivalent in content to the traditional one-year Algebra I. The pace of the course allows students to investigate topics in great depth as well as spend time reviewing 7th and 8th grade standards. Topics include the (x, y) coordinate plane, patterns, problem solving with guess and check tables, simplifying expressions, solving 1-and 2- variable equations, proportional reasoning, graphing, extending patterns and finding rules, multiple representations of data (tables, rules, graphs), $y = mx + b$, systems of equations, distributive property, and writing rules from word problems. Collaborative teamwork is essential to success in this course.

* A scientific calculator is recommended.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20047 A/B	Prerequisite(s)	Successful completion of both semesters of Math 8 or Math 8a or Pre-Algebra		

Algebra 1B This is the second of a two-year sequence of coursework. Together the two years of Algebra IA and Algebra IB will be equivalent in content to the traditional one-year Algebra I. The pace of the course allows students to investigate topics in greater depth. Continued development of algebraic concepts and processes that can be used to solve a variety of real world and mathematical problems. Topics include writing and solving equations, systems of equations, $y = mx + b$, slope as a measure of rate, parallel and perpendicular lines, finding equations of lines, factoring and solving quadratics, solving and graphing inequalities, rational expressions, absolute value inequalities, exponents, and functions. Collaborative teamwork is essential to success in this course.

*A scientific calculator is recommended.

Course Length	Full Year	Grade(s)	9, 10, 11, 12	Credit	2 Credits MATH
Course Number(s)	20049 A/B	Prerequisite(s)	Successful completion of both semesters of Algebra 1A		

Education Exploration I This 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 schools' systems. With exemplary performance and instructor recommendation students may apply for the teacher cadet program

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	27091	Prerequisite(s)	None		

Education Exploration II This is an optional second semester of the Education Exploration course, requiring instructor recommendation. The semester will consist of a series of observations at various grade levels, in various content areas, and in various positions in the education field. Students will complete a job shadow with a professional other than a teacher, and students will be required to participate in some enrichment activities such as staff meetings and professional development. Throughout these multiple and varied experiences, students will complete summative and reflective writing assignments. Students will also complete one STAR event from the FCCLA curriculum.

Course Length	Semester	Grade(s)	10, 11, 12	Credit	1 Credit ELECT
Course Number(s)	27092	Prerequisite(s)	None		

Social Studies 9 This Social Science class is divided into four-unit search lasting four weeks. Students will explore various resources for media, research, and current events followed by a brief exploration into Sociology, Psychology and Economics. Upon completion of this course, students will have a better understanding of these subjects and how they relate to their lives.

NOTE: Social Studies 9 is required for graduation for class of 2025 & 2026.

Course Length	Semester	Grade(s)	9, 10	Credit	1 Credit SOC SCI
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Course Number(s)	25007	Prerequisite(s)	None
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Honors English 10 Students enrolled in this honors course will address the same content standards and curriculum as English 10 through additional and higher-level literary selections. A stronger emphasis will be placed in the areas of analysis, synthesis, and higher-level thinking skills. The research process will culminate in a persuasive essay. Students planning to take AP Literature and Composition should take this course, and students in the course should be self-motivated learners.

Course Length	Full Year	Grade(s)	10	Credit	2 Credits COMM (Comp & Lit) W*
Course Number(s)	18020 A/B	Prerequisite(s)	Successful completion of English 9 or Honors English 9		