

MESA RIDGE HIGH SCHOOL

Course Description Book 2023-2024



MESA RIDGE HIGH SCHOOL

Home of the Grizzlies

6070 Mesa Ridge Parkway
Colorado Springs, Colorado 80911
(719) 391-3600
www.mrhs.wsd3.org

mrhs_grizzlynation

@mrhsgrizzlynation

@mrhsgrizzlies

Administration

Principal	Levka Craft
Assistant Principal	Daniel Jordan
Assistant Principal	Brian Petzold
Interim Athletic Director/Dean	Mike Felice
Dean of Students	Juan Saucedo

Counselors

Last Names A-D	Taylor Moore
Last Names E-L	Nicole Young
Last Names M-R	TBH
Last Names S-Z	Regina Shea

Important Phone Numbers

Athletic Director's Office	391-3614	NJROTC Department	391-3624
Attendance Office	391-3600/01	PE –Boys/Girls	391-3669/3667
Band Department	391-3684	Principal's Office	391-3690
Business Office	391-3610	Registrar's Office	391-3625
Counseling Center	391-3631	Science Department	391-3652
Discipline Office	391-3616	Social Studies Department	391-3654
Drama Department	391-3688	Special Services	391-3651
English Department	391-3653	Transportation	391-3540
Health Office	391-3622	Vocal Department	391-3664
Library	391-3640	World Language Department	391-3654
Math Department	391-3655		

Sports

Fall Sports	Winter Sports	Spring Sports
Cross Country	Basketball (Boys)	Baseball
Football	Basketball (Girls)	Soccer (Girls)
Golf (Boys)	Swimming (Girls)	Tennis (Girls)
Soccer (Boys)	Wrestling (Boys & Girls)	Track (Boys & Girls)
Softball		Volleyball (Boys)
Spirit Squad (Boys/Girls) Yearlong		
Tennis (Boys)		
Volleyball (Girls)		

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Course Description Book

This guide will assist you in planning for a successful high school experience. It contains the requirements that you must meet to graduate from Mesa Ridge High School. It also contains brief descriptions of the courses offered at Mesa Ridge High School. For information on bell schedules, student expectations and conduct, and general information about the school, please refer to the [Mesa Ridge High School Student Handbook](#) available on our website under Information->The Grizzly Way.

Please note that some of the courses listed in this guide may not be offered if the number of students requesting the courses is insufficient, or if the class has reached full capacity before the student applies.

Registration Procedure

Students wishing to enroll at Mesa Ridge High School must first register online with Widefield School District 3. [Click here to go directly to the Student Registration page](#), or go to the District 3 website (wsd3.org) and select Student Registration from the Parents & Students Menu. Once you have completed your district registration, please contact the Mesa Ridge Registrar's Office for assistance (719-391-3625).

Current and newly-accepted students will

- have access to a course description book online for family consideration; and
- have the opportunity to meet individually with a counselor/administrator to develop a yearlong schedule.

Counseling Center Information

Counseling Center services include student scheduling, new student registration, career and vocational counseling, scholarship information, as well as short-term solution focused personal and social counseling.

Concurrent Enrollment, Scholarship, and Employment Information??

Students should recognize the importance of their school records for admission to college, scholarship, and/or financial aid. A student's record is the accumulation of courses from ninth grade through twelfth grade. Students can earn weighted grades in Advanced Placement and Honors courses. **A weighted grade of A through D carries ½ point more for Honors courses, as well as Post-Secondary Options classes, and one point more for Advanced Placement courses.** A student's record includes grade point average, rank in class based on academic courses completed and standardized test results.

In addition to the classes offered at Mesa Ridge High School, the Board of Education will approve rigorous academic classes that students successfully complete at colleges and universities participating in Concurrent Enrollment.

Every student should recognize that employers are looking for high school graduates whose records indicate good attendance, a well-rounded education, responsible behavior, and an in-depth study of a career area; i.e., business, technical, and industrial crafts. Mesa Ridge High School offers a limited number of seniors the opportunity to train in a variety of technical and industrial programs through PPCC's Career Start Program. In addition, Mesa Ridge High School offers classes in marketing, business and vocational education, auto mechanics, carpentry, electronics, and consumer & family studies.

Withdrawal Procedure

The student who needs to withdraw, transfer, or drop from school for any reason must use this procedure:

1. The parent/guardian must come to the Registrar's Office in person to initiate the withdrawal. Bring with you the name and address of the next school the student will attend.
2. Return all textbooks, library books, and school technology. Pay all fines/fees. The completed withdrawal form must be returned to the registrar.
3. The Registrar's Office will forward transcripts when the withdrawal and checkout procedure is complete.

ACADEMIC INFORMATION

Student Classification

Mesa Ridge is a comprehensive, 4-year high school. Graduation requirements are based on the year students enter high school and assume a four-year progression.

Year in High School	Classification
1 st year in high school	Freshman (9)
2 nd year in high school	Sophomore (10)
3 rd year in high school	Junior (11)
4 th year in high school	Senior (12)

Early Completion Procedure

Students are expected to take their finals on the assigned date. Students leaving Mesa Ridge 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

Early Graduation

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 in order 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.

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. 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. These requirements apply to the Class of 2022 and beyond.

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 Science	7	1 Survey 1 Geography 2 World History 2 American History 1 American Government
Personal Development	5	2 Physical Education 1 Health 2 Fine Arts OR World Language OR Careers

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

	32	Required Credits
Electives	16	Credits earned beyond the requirements listed above will count as unrestricted elective credit
	48	Total Credits

Graduation Competencies

In addition to the above 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
Advance Placement Exams (AP)	2 or higher on the following AP exams: AP English Language AP English Literature AP European History 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-WE&SF • Creative Writing • Intermediate Composition • Technical Writing • Technical Writing 300 	<ul style="list-style-type: none"> • ACE PFL • Algebra 2/H Algebra II • Algebra 2A • Consumer Math • Math Today • Personal Financial Literacy (PFL)

Grading & Credits

Grading System

Policy [IKA](#)

A	90-100 (Excellent)	P	Passing*
B	80-89 (Above Average)	CR	Credit*
C	70-79 (Average)	NC	No Credit*
D	60-69 (Below Average)	WF	Withdraw Failing
F	<59	I/F	Incomplete/Failing
		NM	No Mark

*No impact on GPA

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

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

Transfer Credits

Incoming students must provide an official transcript for courses to be accepted at Mesa Ridge 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 weighed 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.

Grade Reports and Transcripts

Grades can be accessed by using Infinite Campus at any time. Parents interested in regular grade updates should access Infinite Campus online through the Widefield School District 3 website or the IC App. The official grade that appears on the transcript is the semester grade. Grade reports are distributed to students at mid-term, quarter, and semester. Transcripts are mailed home after each semester.

A grade of "Incomplete" may be given at the discretion of the teacher. A student shall be allowed to make up an incomplete grade within a two-week period after the end of the semester unless other arrangements have been made in writing with the teacher. In the absence of prior arrangements, the Incomplete shall become an F after the two-week period. When the missing class work is made up and the incomplete grade is changed, the cumulative data will be updated appropriately.

The College/Career Center will provide transcripts for college applications. The Registrar's Office will provide transcripts for other institutions or agencies upon request. After graduation, individuals may order transcripts by contacting the registrar

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 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 credits are transcribed on a P/F basis. Homeschool students must attend Mesa Ridge on a full time basis for a minimum of one semester during senior year in order 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. Mesa Ridge 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.

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, taking into account graduation requirements, their post-secondary 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 Mesa Ridge 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 in their Individual Career/Academic Plans (ICAP) with their counselors. Therefore, it is expected that students will give careful consideration to this process and be responsible for the decisions they make. Students need to consider their alternate courses carefully; alternates are taken into consideration when building schedules and may appear in student schedules. The master schedule for the school is built based upon the courses that students request. The schedule change window

occurs before registration (check-in). 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, or to change lunch
- Elective changes

Schedule changes could impact athletic/activities eligibility.

Weeks 1-2:

After the official schedule change days, changes will only be made during the first two weeks of school 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.

Week 4:

Beginning the third week, students who withdraw from a course will receive a WF (withdraw fail) for the semester grade in the course they are dropping, unless they have been educationally misplaced or have serious extenuating circumstances (e.g., hospitalization, long-term illness, etc.), which must be approved by an administrator. The change will not become official until the request form is returned to the Student Services Center and the change is approved by administration. Students will remain in their originally-scheduled classes until the change is approved and all books/materials are returned. Counselors will notify the student when the change has occurred and the student will be placed in a study hall.

Academic Recognition and Honors

Academic Letter

Academic Letters (gray “MR”) recognize students achieving academic excellence, much the same way that an Athletic Letter recognizes outstanding performance by a varsity athlete. To earn an Academic Letter, a student must maintain a weighted GPA of 3.5 or above for two consecutive semesters. Subsequently, students who maintain a 3.5 or higher GPA for two additional consecutive semesters receive an Academic Bar.

Honor Roll

Honor Roll recognition will be awarded each semester, and students will receive a certificate recognizing their achievements. Students must be enrolled full time (7 classes). Criteria for Honor Roll recognition are a weighted, semester GPA of:

4.0 and Above

3.75 – 3.99

3.50 – 3.74

Single-Semester 0.5 GPA Improvement

Principal’s Honor Roll

Grizzly Merit Honor Roll

Academic Honorable Mention

Dean’s LEAP* Award

*Learning, Engagement, and Academic Progress

Valedictorian/Salutatorian

The valedictorian shall be the student(s) with the highest weighted grade point average (GPA). The salutatorian will be the second highest grade point average (GPA). To be eligible to be valedictorian/salutatorian, the student must attend Mesa Ridge full time for both semesters of senior year. Early graduates do not qualify. In the rare occurrence of two students with the same GPA, the school will conduct a review process to include careful verification of the academic core GPA. Consideration will also be given to the following priorities:

- The total number of academic core courses and credits earned.
- The number of honors and AP courses recognized by WSD3.

The GPA shall be calculated on a weighted scale from all classes (courses) through the completion of the eighth semester.

Graduation Honors and Regalia

Official Mesa Ridge graduation regalia includes the cap, gown, and honors cords awarded by the school. Students may not add, embellish, decorate, or alter graduation regalia in any way.

Students may wear academic recognitions that are awarded by the school. Currently, honors cords are awarded to the top 3% of graduates (gold cord) and the top 15% of graduates (silver cord) based on the cumulative GPA at the end of the 8th semester. AVID students and Tri-M Honor Society students receive cords from those organizations, and students with a parent/guardian who was active duty military may also wear the red/white/blue honor cord, which is awarded by the school. Members of National Honor Society wear the NHS honors stole. Any other school-sponsored honors organization who wishes to award graduation regalia must apply for recognition and approval by administration.

Activities Recognition

Students can earn an Activities Letter in the following school-sponsored activities if they meet the individual program criteria. See the academic advisor for lettering requirements.

AVID

Student Council

Yearbook

Colorado Higher Education Admission Requirements (HEAR)

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

Read more about HEAR requirements by visiting this website: <https://cdhe.colorado.gov/frequently-asked-questions-hear>

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

*Two units of ESL English may count for HEAR recommendations when combined with two units of successfully completed college preparatory English.

**College-preparatory ESL mathematics/science courses that include content and academic rigor/level comparable to other acceptable courses may satisfy HEAR recommendations.

****Acceptable Academic Electives include additional courses in English, mathematics, natural/physical sciences and social sciences, foreign languages, art, music, journalism, drama, computer science, honors, Advanced Placement, and appropriate CTE courses.

Athletics and Activities Eligibility

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

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 on-line 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 MRHS classes can be used to calculate the GPA. Check MRHS' 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 MRHS 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.

College Admission Recommendations

We encourage Mesa Ridge 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.
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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 non-competitive, 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.

Naviance

Naviance is our online college career planning program (Family Connection from *Naviance*). *Naviance* is a comprehensive website that students can utilize to help complete their Individual Career & Academic Plans (ICAP), manage career/college research and, help efficiently complete college applications. Throughout the year, counselors utilize *Naviance* during grade-level classroom guidance. Students are encouraged to discuss with their parents what they have learned and to visit the Naviance website together. Because Naviance is a web-based program, students can access their accounts 24/7. To access account, students should go to Clever located on the Widefield School District 3 website or the Mesa Ridge High School homepage and sig-in using student login information.

Here are just some of the helpful features found in *Naviance*:

- **Stay informed:** College/Career announcements and upcoming college visits
- **ICAP:** Build and update your four-year plan to satisfy graduation and college entrance requirements. Counselors will get you started on this process.
- **College research:** Sign up for college visits at MRHS, complete college searches, save prospective colleges, and request supporting documents (transcripts/letters of recommendation) for college applications your senior year. There is also a scholarship search in this section.
- **Career research:** This section has a personality survey, a career interest profiler, and you can research different careers and majors and, in many cases, look up colleges that offer particular programs! Counselors will get you started on these inventories!
- **Goal setting:** you can complete a “game plan” here to get you thinking about your goals after high school. This section also contains a user-friendly resume builder!
- **Request supporting college application materials** such as official transcripts and letters of recommendation.

Programs and Pathways

Honors Program

Honors and AP courses are open to all motivated and interested students. 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 exceed the minimum state standards for core content areas and have received District approval to award weighted credit. While not required for AP course enrollment, Honors courses help prepare students for the rigor of AP courses.

The Advanced Placement (AP) Program:

The Advanced Placement (AP) program is an international program offered by Mesa Ridge High School in cooperation with the College Board that provides students the opportunity to pursue *college-level studies* while in high school. At the conclusion of the AP course, students 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. Currently, 99% of colleges and universities across the globe offer college credit, advanced placement, or both, for qualifying AP Exam scores. 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. For information, refer to <https://apscore.collegeboard.org/creditandplacement/search-credit-policies>*

AP courses are intended to meet the needs of students seeking in-depth acceleration of curricular content. Because AP courses offer college-level curriculum, **they are more demanding than a standard high school course**. While AP courses have the academic rigor of a college program and reward achievement, they also provide greater opportunities to master a subject and to explore it in greater depth. Students who enroll in AP courses must be highly motivated and willing to work responsibly to develop analytical reasoning skills and disciplined study habits. AP courses exceed the minimum state standards for core content areas and have received District approval to award weighted credit.

TAKING AN AP EXAM

Students are expected to pay an exam fee prior to the close of first semester. This exam fee is largely set by College Board and is subject to annual increases which may not be reflected by the time this course guide is published. Taking the national exam is part of the AP experience. Students are *expected* to pay the exam fee and take the exam. Students who qualify for Federal Aid programs may apply for assistance with AP exam fees.

2023-24 Estimated Exam Fee
\$25/exam
AP FEES MUST BE PAID BEFORE THE END OF 1ST SEMESTER

All AP examinations contain both multiple-choice questions and free-response questions, which require essay writing and problem solving. Most of the examinations are three hours long. The exam must be taken on the date published by the College Board. If a student has a valid reason for withdrawing from taking the national exam, he/she **MUST** take an equivalent exam with his/her teacher in order to retain the AP designation on the transcript and to retain weighted grade status. Refunds for exam fees may be issued, minus an exam handling fee.

Every examination taken by students receives an overall grade on a five-point scale: 5 (extremely well qualified), 4 (well qualified), 3 (qualified), 2 (possibly qualified), and 1 (no recommendation). All exams are based on the course outlined in the AP course description pages which can be found on the College Board website at www.collegeboard.com. Both the course descriptions and the examinations are prepared for the College Board by committees of school and college teachers assisted by specialists at the Educational Testing Service.

AP SCORES

Only students have the right to forward their AP scores to colleges and universities; therefore, AP test scores will not appear on MRHS transcripts. Students can view their score report online from College Board in July following spring testing. Official score reports can be requested through the College Board to be sent to the institution of choice at www.collegeboard.org. Please visit the College Board/AP website for more information. www.myap.collegeboard.org

Career & Technical Education Programs

Mesa Ridge High School and Widefield School District 3 offer a variety of Career and Technical Education (CTE) programs for students to explore interests and gain valuable experience for careers after high school. These programs operate in conjunction with the core academic experience at MRHS and qualify for elective credit. Some courses also cross-qualify for other graduation requirements; see the course description for more information on specific courses. Many of these programs also offer Career Certification options in which students earn valuable certifications that are recognized in industry as proof of their mastery in specific skills.

- ACE – Career Readiness Program
- Art (Design & Multimedia Arts)
- Automotive Services (Vehicle Maintenance & Light Repair)
- Business, Management, & Marketing
- Cabinet Manufacturing (off site at the MILL)
- Computer & Digital Technologies
- Construction Technology (off site at the MILL)
- Cosmetology (off site at International Salon and Spa)
- Family & Consumer Sciences (Hospitality and Food Production, Education)
- Music Production
- PLTW – Biomedical Sciences Program
- PLTW – Engineering Program
- Production and Managerial Arts
- Theatre Technology
- Work-Based Learning

CTE NON DISCRIMINATION 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.

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

PLANNING YOUR ACADEMIC PROGRAM

Communication	English 7 credits								
	Speech 1 credit								
Math	Math 6 credits								
Science	Science 6 credits	Life	Life	Earth	Earth	Physical	Physical		
Social Sciences	Social Science 4 credits	SS9 or APHum Geo	Geog. Or APHum Geo	W Hist	W Hist				
	American Government 1 credit	Gov. or AP Gov.							
	US History 2 credits	US Hist or AP USHist	US Hist or AP USHist						
Personal Development	Physical Education 2 credits	<input type="checkbox"/> PE 9							
	Health 1 credit	<input type="checkbox"/> Health							
	Fine Arts or World Language or Careers 2 Credits								
	Electives 16 credits								

CORE DEPARTMENT COURSE DESCRIPTIONS



ENGLISH DEPARTMENT COURSE OVERVIEW

Core Courses

English 9 Grade 9 1 Year	English 10 Grade 10 1 Year	American Literature Grades 11-12 1 Semester	Intermediate Comp. Grades 11-12 1 Semester
		Multicultural Literature Grades 11-12 1 Semester	Technical Writing Grades 11-12 1 Semester
		World Literature Grades 11-12 1 Semester	Creative Writing Grades 11-12 1 Semester
		British Literature Grades 11-12 1 Year	Adv. Creative Writing Grades 11-12 1 Semester

Honors & Advanced Placement (AP) Courses

Honors English 9 Grade 9 1 Year	Honors English 10 Grade 10 1 Year	American Literature Grade 11-12 Semester	Intermediate Composition Grade 11-12 Semester
	AP Language & Composition Grades 11-12 1 Year	AP Literature & Composition Grades 11-12 1 Year	

Speech Courses

Speech Grades 9-12 1 Semester
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ENGLISH DEPARTMENT COURSE DESCRIPTIONS

Advanced Creative Writing

Course Number: 18040

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: Creative Writing and Teacher Recommendation

Description: 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 school edition of a creative writing magazine.

Grade: 11-12

No. of Credits: 1

Notes:

Advanced Debate

Course Number: 18093

Length: Year

Type of Credit: COMM (Speech)

Prerequisite: Intermediate Debate

Description: Participants in this course will continue to focus on all areas of competitive debate, including Lincoln-Douglas, Cross-Examination, and Public Forum. Students will also have the opportunity to explore congressional and extemporaneous speaking. Students will select one or more area(s) for intensive study and practice, and they will eventually perform these events in actual tournament competition. Each student will be required to compete in a minimum of three tournaments per semester in order to receive credit for this course. Individual practices will be conducted in class.

After school practices is required. Class members will automatically become part of Mesa Ridge 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. (Competitive Speech Team)

Grade: 12

No. of Credits: 1

Notes:

AP Language & Composition

Course Number: 18075 A/B

Length: Year (2 semesters)

Type of Credit: COMM (Comp & Lit)

Prerequisite: C or better in English 10 or Honors English 10 and/or Teacher Recommendation; Honors/AP Signature Page required

Description: The purpose of this course is to help students "write effectively and confidently in their college courses across the curriculum and in their professional and personal lives." (The College Board, AP English Course Description). This course is organized according to the requirements and guidelines in the current AP English Course Description. Students, therefore, are expected to read critically, think analytically, and communicate clearly both in writing and speech. In addition, students will prepare for the AP English Language and Composition Exam and may be granted AP, college credit, or both as a result of satisfactory performance. The rigor of this course will be comparable to college classroom. This course, accredited by the College Board, a national organization, exceeds Colorado State Content Standards and is specifically designed to prepare students to take the AP Literature & Composition Examination, providing them the opportunity to receive college credit. Students who desire to take the test may register through the Counseling Center. Registration fee will be at the student's expense.

Grade: 11

No. of Credits: 2

Notes: W*

AP Literature & Composition

Course Number: 18076 A/B

Length: Year (2 semesters)

Type of Credit: COMM (Comp & Lit)

Prerequisite: British Literature or Advance Placement Language & Composition and/or Teacher Recommendation
Honors/AP Signature Page required

Description: This yearlong English course will provide college preparatory students with a traditional study of some of the world's greatest authors and their literature. Students will explore genres of short stories, novels, dramas, poetry, and essays. The format of the class includes seminar discussions on the reading, college essays and resumes, literary critical analysis, and practice test taking. With the vast amount of reading and writing, the homework load is challenging and students must make a strong commitment of both time and effort. Absences can affect performance and grade. The rigor of this course will be comparable to a college classroom. This course, accredited by the College Board, a national

Grade: 12

No. of Credits: 2

Notes: W*

organization, exceeds Colorado State Content Standards and is designed to prepare students to take the AP Literature & Composition Examination, providing them the opportunity to receive college credit. Students who desire to take the test may register through the Counseling Center. Registration fee will be at the student's expense.

Advanced Oral Interpretation

Course Number: 18096

Length: Semester

Type of Credit: COMM (Speech)

Prerequisite: Beginning Interpretation

Description: Participants in this course will be introduced to certain areas of competitive speech emphasizing oratory, the interpretations 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 these area(s) in actual tournament competition. The advanced oral interpretation students will be able to perform two 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 is required.** Class members will automatically become part of Mesa Ridge 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. (Competitive Speech Team)

Grade: 11-12

No. of Credits: 1

Notes:

American Literature

Course Number: 18055

Length: Semester

Type of Credit: COMM (Literature)

Prerequisite: English 10 or Honors English 10, and/or Teacher Recommendation

Description: This traditional literature course is the study of American heritage. The literary selections read, studied, analyzed, and evaluated reflect the changes of historical moods and themes. These selections, particularly the poetry and drama, will be challenging to read and write about, requiring higher-level thinking and writing skills. The major emphasis of this course will be the study of great American and World literature and its predominant themes.

Grade: 11-12

No. of Credits: 1

Notes:

Beginning Debate

Course Number: 18091

Length: Semester

Type of Credit: COMM (Speech)

Prerequisite: English 9 or Honors English 9 and/or Teacher Recommendation

Description: Participants in this course will be introduced to certain areas of competitive debate, including Lincoln-Douglas, and Public Forum. Students will also have the opportunity to explore congressional and extemporaneous speaking. Students will select one or more areas for intensive study and practice, and they will eventually perform these events in actual tournament competition. Each student will be required to compete in a minimum of three tournaments per semester in order to earn credit for the course. Individual practices will be conducted in class. **After school practice is required.** Class members will automatically become part of Mesa Ridge 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. (Competitive Speech Team)

Grade: 10-12

No. of Credits: 1

Notes:

Beginning Oral Interpretation/Public Speaking

Course Number: 18094

Length: Semester

Type of Credit: COMM (Speech)

Prerequisite: English 9 or Honors English 9 and/or Teacher Recommendation

Description: Participants in this course will be introduced to certain areas of competitive speech, emphasizing oratory, the interpretation of humor, drama, poetry, and Duo interpretation, and extemporaneous speech. Students will select one or more area(s) for intensive study and practice, and they will eventually perform these area(s) in actual tournament competition. 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

Grade: 10-12

No. of Credits: 1

Notes:

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

automatically become part of Mesa Ridge 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. (Competitive Speech Team)

British Literature

Course Number: 18065 A/B

Length: Year (2 semesters)

Type of Credit: COMM (Literature)

Prerequisite: English 10 or Honors English 10, and/or Teacher Recommendation

Description: This higher-level yearlong traditional literary course outlines the development of English history, language, and literary forms. Emphasis will be placed on reading, discussing, and analyzing British literature. Students will be required to demonstrate strong reading/writing skills through a variety of projects.

Grade: 11-12

No. of Credits: 2

Notes:

Creative Writing

Course Number: 18035

Length: Semester

Type of Credit: Elective

Prerequisite: Intermediate Composition, Technical Writing, Honors English 10, and/or Teacher Recommendation

Description: This is an upper level-writing course designed for those who have mastered grammar, usage, and mechanics, who have some sense of writing style. It aims at fostering creativity, especially in description and narration.

Grade: 11-12

No. of Credits: 1

Notes:

English 9

Course Number: 18005 A/B

Length: Year (2 semesters)

Type of Credit: COMM (Comp & Lit)

Prerequisite: NONE

Description: This yearlong 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 narrative, descriptive, 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.

Grade: 9

No. of Credits: 2

Notes:

English 10

Course Number: 18015 A/B

Length: Year (2 semesters)

Type of Credit: COMM (Comp & Lit)

Prerequisite: English 9 or Honors English 9

Description: This yearlong 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.

Grade: 10

No. of Credits: 2

Notes:

Honors English 9

Course Number: 18007 A/B

Length: Year (2 semesters)

Type of Credit: COMM (Comp & Lit)

Prerequisite: Honors/AP Signature Page Required

Description: This yearlong 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 narrative, descriptive, 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.

Grade: 9

No. of Credits: 2

Notes: W*

Key: W*/W**=Weighted Credit; IC=Industry Certification Available; GC/P=Meets Graduation Competencies with Portfolio

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.

Honors English 10

Course Number: 18020 A/B

Length: Honors/AP Signature Page Required

Type of Credit: COMM (Comp & Lit)

Prerequisite: English 9 or Honors English 9

Description: The same content standards and curriculum will be addressed as in English 10, however a stronger emphasis will be placed in the areas of analysis, synthesis and higher level thinking skills through additional and higher-level literary selections. Students planning on taking AP Language & Composition their junior year should take this class.

Grade: 10

No. of Credits: 2

Notes: W*

Intermediate Composition

Course Number: 18030

Length: Semester

Type of Credit: COMM (Comp)

Prerequisite: English 10 or Honors English 10 and/or Teacher Recommendation

Description: In this course, sentence structure is emphasized through use of the writing process, and the four forms of discourse (narration, description, exposition, and persuasion) are refined. Considerable emphasis is placed upon developing essays in more sophisticated modes, including a research-based persuasive essay. Students will become proficient at evaluating their own writing.

Grade: 11-12

No. of Credits: 1

Notes:

Intermediate Debate

Course Number: 18092

Length: Year

Type of Credit: COMM (Speech)

Prerequisite: Beginning Debate

Description: Participants in this course will continue with certain areas of competitive debate, emphasizing both Lincoln-Douglas, and Public Forum debate. Students will select one or more area(s) for intensive study and practice, and they will eventually perform these area(s) in actual tournament competition. 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 is required.** Class members will automatically become part of Mesa Ridge 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. (Competitive Speech Team)

Grade: 11-12

No. of Credits: 2

Notes:

Multicultural Literature

Course Number: 18050

Length: Semester

Type of Credit: COMM (Literature)

Prerequisite: English 10 or Honors English 10, and/or Teacher Recommendation

Description: 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 will be accomplished through reading, discussing and analyzing, researching, writing, and speaking.

Grade: 11-12

No. of Credits: 1

Notes:

Speech Communications

Course Number: 18085

Length: Semester

Type of Credit: COMM (Speech)

Prerequisite: English 10 or Honors English 10, and/or Teacher Recommendation

Description: Prerequisite: 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,

Grade: 11-12

No. of Credits: 1

Notes:

Key: W*/W**=Weighted Credit; IC=Industry Certification Available; GC/P=Meets Graduation Competencies with Portfolio

demonstrative, and/or persuasive speeches) will be an integral part of this course. Effective delivery and listening skills will be emphasized.

Technical Writing

Course Number: 18025

Length: Semester

Type of Credit: COMM (Composition)

Prerequisite: English 10 or Honors English 10, and/or Teacher Recommendation

Description: In this course, students already proficient in their writing abilities will use standard writing that can be applied to a variety of technical documents. Students will learn principles for organizing, writing, revising, and presenting clear, oral and written documents for industry, business, and government. **NOTE:** This course does not meet NCAA requirements.

Grade: 11-12

No. of Credits: 1

Notes:

World Literature

Course Number: 18070

Length: Semester

Type of Credit: COMM (Literature)

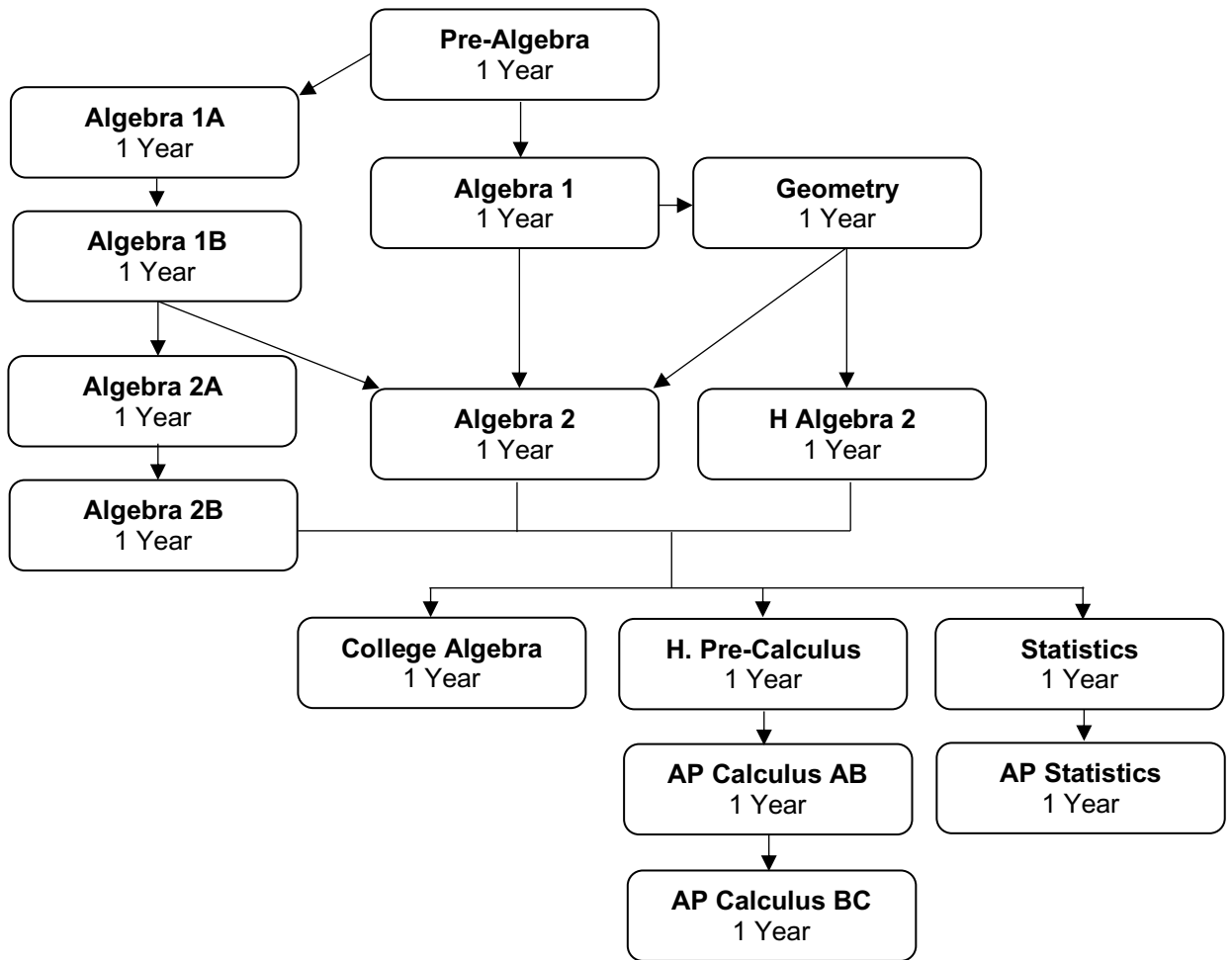
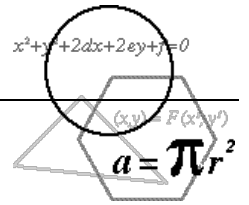
Prerequisite: English 10 or Honors English 10, and/or Teacher Recommendation

Description: 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 use higher level reading comprehension and thinking skills. Emphasis will be placed on in-depth analysis through both discussion and writing.

Grade: 11-12

No. of Credits: 1

Notes:



Personal Financial Literacy*
Grade 12 Only
1 Semester/1 Year

Math Today*
Grade 12 Only
1 Semester/1 Year

NOTE: Students must see their current math teacher for recommendation(s) to the next math level / course(s).

MATH DEPARTMENT COURSE DESCRIPTIONS

Algebra 1A

Course Number: 20047A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Teacher Recommendation

Description: The pace of the course allows students to investigate topics in depth, spend time reviewing 7th and 8th grade standards, and be better prepared for completion of a traditional Algebra 1 course. Topics include order of operations, evaluating expressions, distributive property, patterns, real number system, properties of real numbers, solving equations, proportional reasoning, percepts, and solving inequalities. Knowing and understanding the vocabulary presented in the course is essential to success.

Grade: 9-12

No. of Credits: 2

Required Tech: Scientific Calculator

Notes:

Algebra 1B

Course Number: 20049 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Successful completion of 1st semester Algebra I/IA, Teacher Recommendation

Description: 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. This course is designed to provide students with an alternative to the traditional one-year Algebra I course while the pace allows students to investigate topics in greater depth. This course continues to develop 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.

Grade: 9-12

No. of Credits: 2

Required Tech: Scientific Calculator

Notes:

Algebra 1

Course Number: 20045 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Pre-Algebra, Alg. 1A, or Teacher Recommendation

Description: 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), scatterplots, solving and graphing inequalities, systems of equations and inequalities, distributive property, writing rules from word problems, slope as a rate of change, parallel and perpendicular lines, equations of lines, functions, rational expressions, absolute value equations, exponents and exponential functions, factoring and solving quadratics.

Grade: 9-12

No. of Credits: 2

Recommended Tech: Graphing Calculator (TI-84)

Notes: **

Algebra 2A

Course Number: 20051 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Algebra 1 and Teacher Recommendation

Description: This is the first of a two-year sequence of coursework. Together the two years of Algebra 2A and Algebra 2B will be equivalent in content to the traditional yearlong Algebra 2. This course is designed to provide students with an alternative to the traditional yearlong Algebra 2 course. The pace of the course allows students to investigate topics in great depth. This course continues to review Algebra 1 and Geometry topics used to solve a variety of real world and mathematical problems. Topics include expressions, equations, and inequalities, functions (linear, absolute value, quadratics) and graphs, linear systems, systems of inequalities, systems with three variables, matrices, quadratic functions and equations, and complex numbers.

Grade: 10-12

No. of Credits: 2

Recommended Tech: Graphing Calculator (TI-84)

Notes: GC/P

Algebra 2B

Course Number: 20052 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Key: W*/W**=Weighted Credit; IC=Industry Certification Available; GC/P=Meets Graduation Competencies with Portfolio

Prerequisite: Algebra 2A or 1st semester of Algebra 2 & Teacher Rec. **Notes:**

Description: This is the second of a two-year sequence of coursework. Together the two years of Algebra 2A and Algebra 2B will be equivalent in content to the traditional yearlong Algebra 2. This course is designed to provide students with an alternative to the traditional yearlong Algebra 2 course while the pace allows students to investigate topics in greater depth. This course reviews quadratics and the complex number system. New topics include polynomials and polynomial functions, radical functions, rational exponents, inverses, exponential and logarithmic functions, and rational functions.

Algebra 2

Course Number: 20050 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Algebra I

Description: Required materials: Graphing Calculator (TI-84 is recommended) and graph paper

Topics include expressions, equations, and inequalities, functions (linear, absolute value, quadratics) and graphs, linear systems, systems of inequalities, systems with three variables, matrices, quadratic functions and equations, and complex numbers, polynomials and polynomial functions, radical functions, rational exponents, exponential and logarithmic functions, rational functions. Additional topics can include sequences and series, quadratic relations, and conic sections.

Grade: 10-12

No. of Credits: 2

Recommended Tech: Graphing Calculator (TI-84)

Notes: **, **GC/P**

College Algebra

Course Number: 20060

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Algebra 2

Description: College Algebra introduces students to patterns, recursion, linear models, systems of equations, functions and transformations, exponential functions, power functions, logarithmic functions, quadratics, polynomials, matrices, parametric equations, conic sections, series, triangle trigonometry, and circular trigonometry.

Grade: 10-12

No. of Credits: 2

Required Tech: Graphing Calculator (TI-84)

Notes: **

Geometry

Course Number: 20067 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Algebra 1 or Teacher Recommendation

Description: 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.

Grade: 9-12

No. of Credits: 2

Required Tech: Scientific Calculator

Recommended Tech: Graphing Calculator (TI-84)

General Statistics

Course Number: 20085 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: At least one semester of Algebra 2

Description: General Statistics introduces students to random sampling, surveys, experiments, descriptive statistics, normal distributions, linear regressions, probability, and basic statistical inference. The use of technology is essential to success in this course. This requires extensive out of class reading to be successful.

Grade: 11-12

No. of Credits: 2

Required Tech: TI83+ or equivalent graphing calculator

Notes: ***

Honors Algebra II/Trigonometry

Course Number: 20057 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Teacher Recommendation

Description: Algebra II/Trig covers the concepts of properties, absolute value, inequalities, linear relations and functions, graphing, matrices, systems of equations and inequalities, operations on polynomials, real and imaginary roots, quadratic equations and graphs, rational polynomial expressions, exponents and radicals, logarithms, and trigonometry. Statistical measures and graphical representation of data is integrated throughout other topics.

Grade: 9-12

No. of Credits: 2

Required Tech:

Notes: **W***

Honors Pre-Calculus

Course Number: 20080 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: C+ or higher in both semesters of Algebra 2

Description: 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 is a weighted course and requires out of class work for success.

Grade: 10-12

No. of Credits: 2

Required Tech: Graphing Calculator (TI-84)

Notes: W* ***, ++

Intro to Pre-Algebra

Course Number: 28073

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Teacher Recommendation

Description: The primary goal is to connect new concepts with existing knowledge and to the world outside the classroom. This is done through a problem solving approach. Topics include basic skills practice, decimals, rational numbers, integers, data analysis, ratios, and proportions. Collaborative teamwork is essential to success in this course.

Grade: 9-12

No. of Credits: 2

Required Tech: Scientific Calculator

Notes:

Math Today

Course Number: 20015

Length: Semester or Year

Type of Credit: Math

Prerequisite: ACE PFL, Pre-Algebra or ↑, & Teacher Recommendation **Notes:** GC/P

Description: Math Today is a continuation of Consumer Math class covering budgeting, checking and savings accounts, income tax calculations, comparative shopping, the purchase of a car, types of insurance, credit, loans and more. Students must have the ability to work independently. This course teaches math skill that prepare students for life beyond graduation. Skill based course.

Grade: 12

No. of Credits: 1 or 2

Required Tech: Scientific Calculator

Personal Finance Literacy

Course Number: 20011

Length: Semester or Year

Type of Credit: Math

Prerequisite: Algebra 1, 1 semester of Alg. 2, & Teacher Recommendation

Description: This course surveys the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns. Students taking this course will learn to better prepare for their financial futures. Concepts in financially are independent enough to where students can successfully take either one semester or both.

Grade: 12

No. of Credits: 1 or 2

Required Tech: Scientific Calculator

Notes: GC/P

Pre-Algebra

Course Number: 20040 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Teacher Recommendation

Description: Students will connect new concepts with existing knowledge and to the world outside the classroom. Problem solving is incorporated throughout all topics. Topics include decimals, rational numbers, integers, solving equations, data analysis, ratios, proportions, graphing on a coordinate plane. Collaborative teamwork is essential to success in this course.

Grade: 9-12

No. of Credits: 2

Required Tech: Scientific Calculator

Notes:

AP Calculus (AB)

Course Number: 20090 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Honors Pre-Calculus or Teacher Recommendation

Description: 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 is a weighted course and requires out of class work for success.

Grade: 11-12

No. of Credits: 2

Required Tech: Graphing Calculator (TI-84)

Notes: W* ***, ++

Key: W*/W**=Weighted Credit; IC=Industry Certification Available; GC/P=Meets Graduation Competencies with Portfolio

AP Calculus II (BC)

Course Number: 20093 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: AP Calculus (AB) or Teacher Recommendation

Description: AP Calculus II (AB) is a continuation of AP Calculus (AB). Transcendental functions, techniques and applications of integration, Taylor's theorem, improper integrals, infinite series, analytic geometry, polar coordinates, and parametric equations. This is a weighted course and requires out of class work for success.

Grade: 12

No. of Credits:2

Required Tech: Graphing Calculator (TI-84)

Notes: W* ***, ++

AP Statistics

Course Number: 20087 A/B

Length: Year (2 Semesters)

Type of Credit: Math

Prerequisite: Algebra II

Description: This course introduces students to descriptive data, normal distribution, linear regression, random sampling, surveys, experiments, probability, inference for proportions and means and Chi-Square distribution. The use of technology is essential in this course. This is a weighted course that requires out of class reading as well as out of class work to be successful.

Grade: 11-12

No. of Credits:2

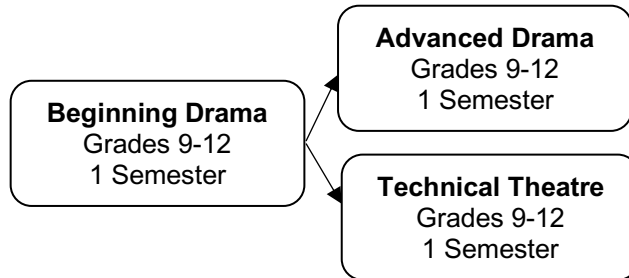
Required Tech: Graphing Calculator (TI-84)

Notes: W* ***, ++

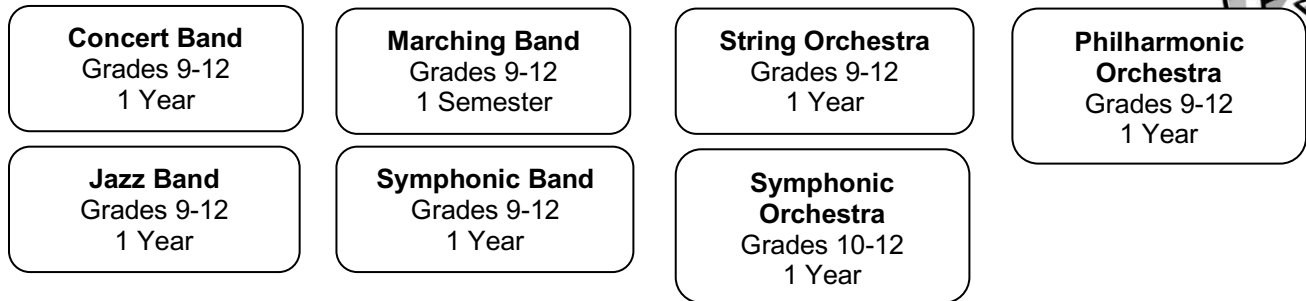
PERFORMING ARTS DEPARTMENT COURSE OVERVIEW



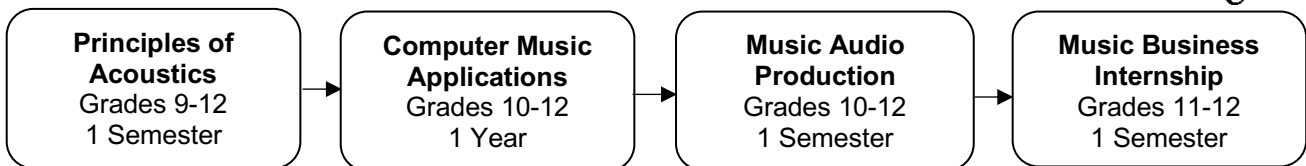
Drama



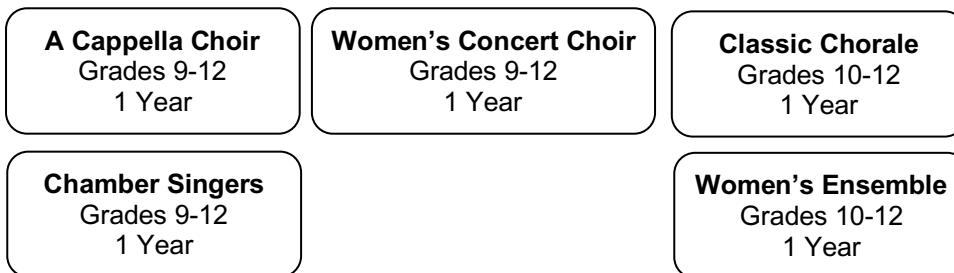
Instrumental Music



Music Technology & Sound Engineering



Vocal Music



DRAMA COURSE DESCRIPTIONS

Advanced Drama

Course Number: 22080

Length: Semester

Type of Credit: Elective

Prerequisite: Beginning Drama

Description: This class is a performance class. The students will learn to act for an evening audience and critique performances. They will also learn to crew their performances. One-hour performing arts/general credit is given for each semester. Class may be repeated each semester.

Grade: 9-12

No. of Credits: 1

Notes:

Beginning Drama

Course Number: 22075

Length: Semester

Type of Credit: Elective

Prerequisite: None

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

Grade: 9-12

No. of Credits: 1

Notes:

Technical Theatre A

Course Number: 22086

Length: Semester

Type of Credit: Elective

Prerequisite: None

Description: 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.

Grade: 10-12

No. of Credits: 1

INSTRUMENTAL MUSIC COURSE DESCRIPTIONS

Chamber Strings

Course Number: 22030 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: String Orchestra, Symphonic Orchestra or Philharmonic Orchestra and/or by audition

Description: 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 level 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 All-City Honor Orchestra, All State Orchestra or both. Honors credit for the course is available by meeting additional requirements.

Grade: 10-12

No. of Credits: 2

Notes:

Concert Band

Course Number: 22055 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: One year of experience playing a band instrument in a school band program, and/or director approval

Description: The Concert Band is for basic to proficient musicians who have at least 1 year of experience playing a band instrument in a school band program, and/or have the director's approval. This ensemble performs grade 1.5 to grade 3 level literature and will primarily focus on building skills and techniques required to advance to an auditioned ensemble. Students are expected to practice outside of rehearsal time. All performance and rehearsal dates are required and include home concerts, festivals, and district concerts. Skills that will be developed are tone, rhythm, scale proficiency, phrasing, ensemble and individual techniques required to be a proficient to advanced high school musician.

Grade: 9-12

No. of Credits: 2

Notes:

Jazz Band

Course Number: 22050 A/B

Grade: 9-12

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Length: Year (2 semesters)

No. of Credits:2

Type of Credit: Elective

Notes:

Prerequisite: Must be a current member of one of the concert ensembles or at director's discretion and must audition

Description: The Jazz Band is for proficient to advanced musicians who perform saxophone, trumpet, trombone, piano, guitar, bass guitar, percussion, or drum set. Students must audition each year to be selected and must currently be in a major instrumental ensemble. The Jazz Band will perform high school and advanced high school literature. Students are expected to practice outside of rehearsal time. All performance and rehearsal dates are required and include home concerts, festivals, tours, and competitions. Participation in honor groups is encouraged.

Marching Band

Course Number: 22060

Grade: 9-12

Length: Semester

No. of Credits:2

Type of Credit: Elective

Notes:(First semester only, 8th period)

Prerequisite: Participation in Summer Camps and Director Approval, (Audition for percussion and flags)

Winds and Percussion must be enrolled in Concert, Symphonic, or Wind Symphony.

Description: The marching band is open to any student who plays an instrument or 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 home football games and parades. All performance and rehearsal dates are required, and summer activities must be attended. This is a physical class and requires movement, lifting, and physical fitness. Accommodations may be made with director's approval. *NOTE: Students who successfully complete 2 semesters of marching band are eligible to waive one credit of P.E.

String Orchestra

Course Number: 22025

Grade: 9-12

Length: Year (2 semesters)

No. of Credits:2

Type of Credit: Elective

Notes:

Prerequisite: Must have played an orchestral stringed instrument for a minimum of 2 years; home practicing and performances are required

Description: 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 a deeper understanding of ensemble music. They will be introduced to orchestral literature of varying musical periods. Home practice and performances are required.

Symphonic Band

Course Number: 22055 A/B

Grade: 9-12

Length: Year (2 semesters)

No. of Credits:2

Type of Credit: Elective

Notes:

Prerequisite: Concert band and/or by audition

Description: The Symphonic Band is for proficient to accomplished musicians who have been selected to the ensemble based on an audition. This ensemble performs high school to advanced high school level literature, and students are expected to practice outside of rehearsal 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 and ensemble is also encouraged. Students will continue to develop tone production, sight-reading, ensemble and individual techniques needed to perform music at an accomplished level.

Symphonic Orchestra

Course Number: 22026

Grade: 10-12

Length: Year (2 semesters)

No. of Credits:2

Type of Credit: Elective

Notes:

Prerequisite: String Orchestra and/or by audition

Description: 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.

Wind Symphony

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Course Number: 22046 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Symphonic Band and/or audition

Description: Honors credit is available for this course by meeting additional course requirements.

The Wind Symphony is for advanced musicians who have been selected to the ensemble based on an audition. This ensemble performs advanced high school and college level literature. Students are expected to practice outside of rehearsal time, and encouraged to take private lessons. All performance and rehearsal dates are required and include home concerts, tours, festivals, and competitions. Participation in city, college, and state honor bands, as well as solo and ensemble is encouraged. Students will continue to develop tone production, sight-reading, ensemble and individual techniques needed to perform music at an advanced level. Students may qualify for honors credit if all additional criteria are met.

Grade: 9-12

No. of Credits: 2

Notes:

MUSIC TECHNOLOGY/SOUND ENGINEERING COURSE DESCRIPTIONS

Computer Music Applications

Course Number: 22057 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Concurrent enrollment in a performing arts class (band, choir, orchestra, theatre) and Principles of Acoustics.

Description: Computer Music Applications introduces students to the Digital Audio Workstation, current practices with MIDI instruments, MIDI sequencing, MIDI editing, and music notation programs. Advanced music notation software techniques, creating unique synthesizer timbres, and audio/video synchronization will be among the topics explored. In addition, refining recording engineering skills, and improve editing and mixing concepts such as frequency, harmonics, and pitch will be included as a part of the course curriculum.

Grade: 10-12

No. of Credits: 2

Notes: Currently Not Offered

Music Audio Production

Course Number: 22058

Length: Semester

Type of Credit: Elective

Prerequisite: Computer Music Applications

Description: Music Audio Production focuses on preparing the student portfolio for the college application process. This includes further development of program skills (ProTools, etc.) and the addition of new program skills (Reason/Virtual Drumline/etc.). Also includes learning how to setup, run, and record live audio using critical listening for a school performance. Develops further postproduction skills including mixing, editing, digital and analog technology, and producing tracks based on live audio as well as samples (MIDI or other).

Grade: 10-12

No. of Credits: 1

Notes: Currently Not Offered

Music Business Internship

Course Number: 22059

Length: Semester

Type of Credit: Elective

Prerequisite: Music Audio Production

Description: 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 project will be included to fulfill the requirements of this course.

Grade: 11-12

No. of Credits: 1

Notes: Currently Not Offered

Principles of Acoustics

Course Number: 22056

Length: Semester

Type of Credit: Elective

Prerequisite: Concurrent enrollment in performing arts class (band, choir, orchestra, theatre)

Description: Principles of Acoustics is designed to introduce the fundamentals of acoustics and sound, with a focus on spaces designed for recording music versus spaces designed for live performance. The class covers theoretical study and practical experimentation that contributes to positive acoustics; including control of noise, manipulation of sound and

Grade: 9-12

No. of Credits: 1

Notes: Lab Fee - \$20

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

isolation of sound. You will learn how to measure and quantify these key components in existing spaces and how to predict acoustical behavior in new spaces. Included will be the basic physical principles of waves, and understanding of science of music, the characteristics of musical instruments and sound effects of rooms/halls. The acoustics of stringed instruments, wind instruments, singing and electronic instruments will be discussed.

VOCAL MUSIC COURSE DESCRIPTIONS

A Cappella Choir

Course Number: 22010 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: None

Description: This group studies all forms of vocal literature and styles. Performances are required and include home concerts, tours, and competitions.

Grade: 9-12

No. of Credits:2

Notes:

Chamber Singers

Course Number: 22020 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: A Cappella Choir or Women's Concert Choir and permission of the director

Description: This group of mixed voices involves students who have completed the learning skills in A Cappella Choir or Women's Concert Choir. This course introduces the more advanced abilities in independent sight-singing and aural discrimination. Many styles of choral music will be studied and performed. Concerts are required and will include home concerts, tours, and competitions.

Grade: 9-12

No. of Credits:2

Notes:

Classic Chorale

Course Number: 22021 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: A Cappella Choir or Women's Ensemble or audition Chamber Singers

Description: Students may qualify for honors credit if all additional criteria are met

This group of mixed voices involves students who have completed the learning skills in Chamber Singers or Women's Ensemble. These courses introduce the most advanced abilities in independent sight-singing and aural discrimination. Many styles of choral music will be studied and performed. Concerts are required and will include home concerts, tours, and competitions.

Grade: 10-12

No. of Credits:2

Notes:

Music Theory

Course Number: 22065 A/B

Length: Semester

Type of Credit: Elective

Prerequisite: Concurrent enrollment in a music class

Description: This course is a semi-independent study allowing students to progress at their own pace. Basic skills will 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.

Grade: 10-12

No. of Credits:1

Notes: S2 Only, 8th Period

Women's Concert Choir

Course Number: 22005 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: None

Description: This course introduces the concepts of choral singing. Students will be able to read choral music and understand and produce vocal music by the completion of the course. Performances are required and will involve concerts. Although members are often experienced (usually through junior high involvement), new singers can be successful.

Grade: 9-12

No. of Credits:2

Notes:

Women's Ensemble

Course Number: 22015 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: A Cappella, Concert Choir, Chamber Singers and permission of the director

Description: This group of women's voices involves students who have completed the learning skills in A Cappella Choir. This course introduces more advanced concepts in choral singing. Singers are experienced and able to sight-sing independently. The group studies all forms of vocal literature and styles. Performances are required and include concerts, tours, and competitions.

Grade: 10-12

No. of Credits:2

Notes:



PE DEPARTMENT COURSE OVERVIEW

Course Requirements for Freshmen

PE 9
Grade 9
1 Semester

Health
Grade 9
1 Semester

Course Options for Grades 10-12*

Aerobics
Grades 10-12
1 Semester

Individual Sports
Grades 10-12
1 Semester

Team Sports
Grades 10-12
1 Semester

Weight Lifting/Conditioning
Grades 11-12
1 Semester

*Can be repeated for credit.

PE DEPARTMENT COURSE DESCRIPTIONS

Aerobics

Course Number: 23010

Length: Semester

Type of Credit: Personal Development (PE)

Prerequisite: None

Description: Aerobics refers to a system of exercises based on stimulating heart and lung activities for a period long enough to produce beneficial changes in 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.

Grade: 10-12

No. of Credits: 1

Notes: Can be repeated for credit

Athletic Training

Course Number: 26030

Length: Semester

Type of Credit: Elective

Prerequisite: Health

Description: 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 recognize and treat athletic-related injuries through both classroom work and practical experience in the training room. The student will also become Red Cross certified in first aid and cardiopulmonary resuscitation. This course will be beneficial to students considering a career in the medical field by exposing them to many common medical procedures. **Please note – students must complete 10 hour of field experience outside of class.**

Grade: 9-12

No. of Credits: 1

Notes:

Health

Course Number: 23040

Length: Semester

Type of Credit: Personal Development (Health)

Prerequisite: None

Grade: 9-12

No. of Credits: 1

Notes:

Description: This course is the study of the whole person, including a person's mental and physical well-being. Human feelings, fitness, nutrition, alcohol, drugs, tobacco, personal safety, and first aid are among the topics, which will be taught. Students will gain knowledge valuable in making healthy lifestyle decisions.

Individual Sports

Course Number: 23015

Length: Semester

Type of Credit: Personal Development (PE)

Prerequisite: None

Description: 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 sports activities. A variety of conditioning aspects are reviewed.

Grade: 10-12

No. of Credits: 1

Notes: Can be repeated for credit

Lifeguard (American Red Cross Lifeguard Certification)

Course Number: 23031

Length: Year (2 Semesters)

Type of Credit: Elective

Prerequisite: None

Description: 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. (The ARC test is to certify as a lifeguard).

Grade: 11-12

No. of Credits: 1

Notes: This class takes place at WHS

PE 9

Course Number: 23005

Length: Semester

Type of Credit: Personal Development (PE)

Prerequisite: None

Description: This course will promote skill development and implementation; as well as physical fitness, through a variety of indoor and outdoor 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.

Grade: 9

No. of Credits: 1

Notes:

Swimming

Course Number: 14108

Length: Semester

Type of Credit: Personal Development (PE)

Prerequisite: None

Description: 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.

Grade: 10-12

No. of Credits: 1

Notes: Can be repeated for credit

*This class takes place at WHS

Team Sports

Course Number: 23020

Length: Semester

Type of Credit: Personal Development (PE)

Prerequisite: None

Description: The 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.

Grade: 10-12

No. of Credits: 1

Notes: Can be repeated for credit

Weight Lifting and Conditioning

Course Number: 23035

Grade: 10-12

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Length: Semester

Type of Credit: Personal Development (PE)

Prerequisite: None

Description: This course is designed for the student with a high interest in muscle development through the resistant exercise of weight lifting, as well as cardiovascular development through use of conditioning and fitness exercises.

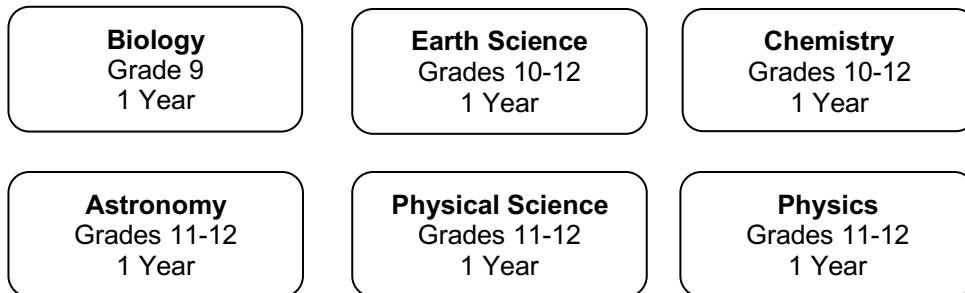
No. of Credits: 1

Notes: Can be repeated for credit

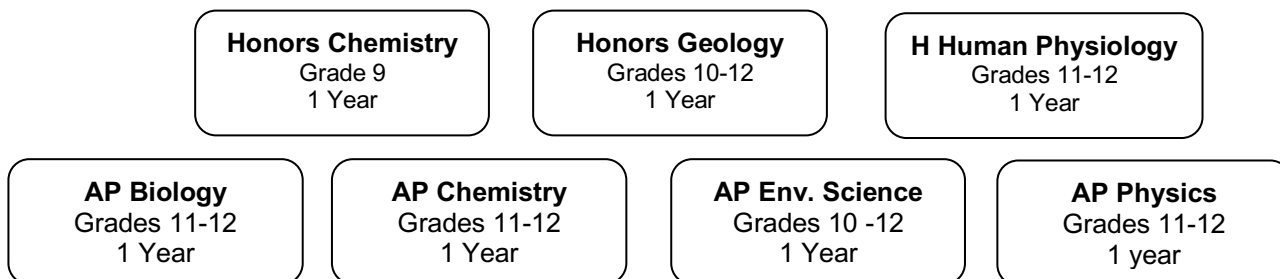


SCIENCE DEPARTMENT COURSE OVERVIEW

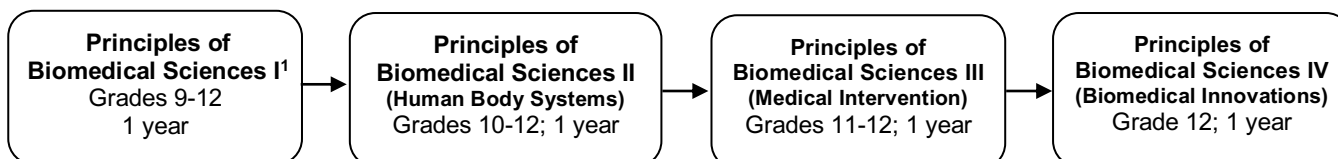
Core Courses



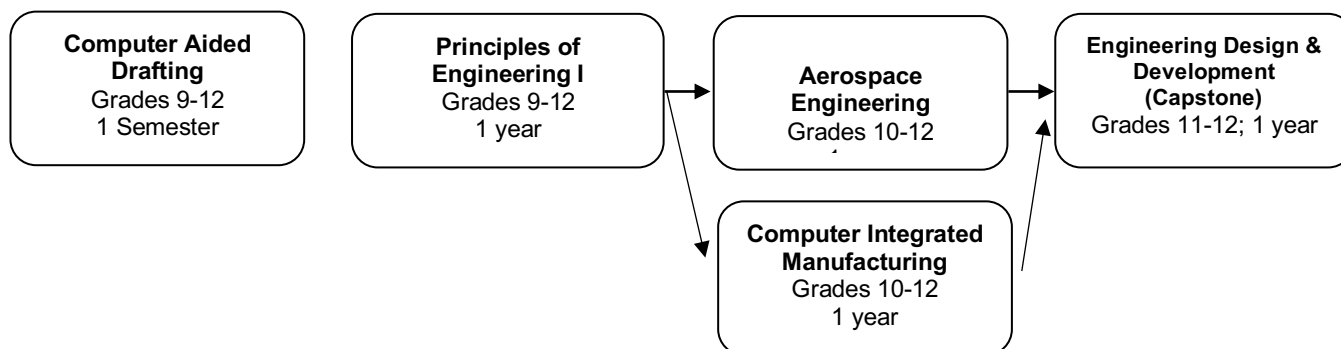
Honors & Advanced Placement (AP) Courses



Project Lead the Way Biomedical Sciences*



Project Lead the Way Engineering*



*See the [Project Lead the Way section](#) of the *Course Guide* for complete course descriptions and credit information.

¹Course meets the requirement for a Life Science credit.

SCIENCE DEPARTMENT COURSE DESCRIPTIONS

AP Biology

Course Number: 24020 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Elective)

Prerequisite: Biology recommended; Chemistry required

Description: 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. 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. “This class follows the course outline set by the College Board and prepares students for the AP Test in May. All students are expected to take the AP Test.”

Grade: 11-12

No. of Credits: 2

Notes: Lab Fee, **W****

AP Chemistry

Course Number: 24065 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Elective)

Prerequisite: General Chemistry

Description: The course is the equivalent of the general chemistry course usually taken during the first college year. For some students, 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. For other students, the course fulfills the laboratory science requirement and frees time for other courses. The course is taken after successful completion of general chemistry. “This class follows the course outline set by the College Board and prepares students for the AP Test in May. All students are expected to take the AP Test.”

Grade: 11-12

No. of Credits: 2

Notes: Lab Fee, **W****

AP Environmental Science

Course Number: 24085 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Elective)

Prerequisite: Earth Science, Biology, and Geology.

Description: The AP Environmental Science course is a full-year course designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the course is 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, to examine alternative solutions for resolving and/or preventing them, and to develop and focus their own political perspective. The AP Environmental class is designed to provide students with a hands-on approach to field science; as such this class is often doing “field work” which may include strenuous outdoor activities and outdoor research in cold weather. ***“This class follows the course outline set by the College Board and prepares students for the AP Test in May. All students are expected to take the AP Test.”***

Grade: 11-12 (10th w/ teacher approval)

No. of Credits: 2

Notes: **W****

AP Physics

Course Number: 24075 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Elective)

Prerequisite: Honors Pre-Calculus, College Algebra, or Teacher recommendation

Description: The AP Physics course covers topics in classical physics. Knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus will be introduced in connection with physical concepts such as acceleration work, momentum and circular motion. 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. ***“This class follows the course outline set by the College Board and prepares students for the AP Test in May. All students are expected to take the AP Test.”***

Grade: 10-12

No. of Credits: 2

Notes: Lab Fee, Dual Credit option, **W****

Astronomy

Course Number: 24040

Length: Semester

Type of Credit: Science (Elective)

Grade: 11-12

No. of Credits: 1

Notes:

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Prerequisite: Algebra or teacher recommendation

Description: This course is an in-depth study of astronomical phenomena and related areas. Topics that are studied include the constellations, the moon, seasons, light and telescopes, the planets, stellar astronomy, the galaxies, and the space program. Telescope work and observations, both evening and morning, are mandatory.

Biology

Course Number: 24005 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Life)

Prerequisite: None

Description: Biology is the study of life. Students will explore topics that include an introduction to scientific method, biochemistry, ecology, genetics, and evolution. The course will include projects, laboratory exercises, and other activities that will relate to student life, and our society. This course will also help prepare students for future science courses.

Grade: 9

No. of Credits: 2

Notes:

Chemistry

Course Number: 24055 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Physical)

Prerequisite: Successful completion of Algebra I

Description: This college preparatory course focuses on measurement of matter, energy, atomic structure, chemical composition, and equations. The Periodic Table is used to discuss periodic law. Radioactivity, electron configuration, chemical bonds, and solutions are also studied. Students will need access to the internet and need a scientific calculator.

Grade: 10-12

No. of Credits: 2

Notes: Lab Fee

Earth Science

Course Number: 24030 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Earth)

Prerequisite: None

Description: 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.

Grade: 10-12

No. of Credits: 2

Notes:

Honors Geology

Course Number: 24037 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Earth)

Prerequisite: Earth Science or teacher recommendation

Description: Honors Geology is an in-person, hands-on, lab-based class. This is a more detailed coverage of geologic topics introduced in Earth Science. The course covers mostly physical geologic concepts, but some time is spent on historical geology. Environmental problems will be discussed throughout the course. Students will need to purchase a lab manual.

Grade: 11-12

No. of Credits: 2

Notes:

Honors Chemistry

Course Number: 24060 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Physical)

Prerequisite: Successful completion of Algebra II

Description: Honors Chemistry is a college preparatory course, including general topics of chemistry as outlined in general chemistry with an 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. Students who pass this course will earn a weighted grade. Students will need access to the internet and a scientific calculator.

Grade: 10-12

No. of Credits: 2

Notes: Lab Fee, **W***

Honors Human Physiology

Course Number: 24016 A/B

Length: Year (2 Semesters)

Type of Credit: Science (Elective)

Prerequisite: Biology

Grade: 11-12

No. of Credits: 2

Notes: Lab Fee. **W***

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Description: 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 on the anatomy and physiology of the major organ systems. Students will also learn medical terminology.

Physical Science

Course Number: 24050 A/B

Grade: 11-12

Length: Year (2 Semesters)

No. of Credits: 2

Type of Credit: Science (Physical)

Notes: Calculator Recommended, **W***

Prerequisite: Teacher recommendation

Description: This course is predominantly for upperclassmen who have not taken chemistry. First semester, students will encounter chemistry topics ranging from periodic table to nuclear chemistry. Second semester students will study physics with emphasis on energy. This is a hands-on course, exploring many topics in a lab or project setting

Physics

Course Number: 24070 A/B

Grade: 11-12

Length: Year (2 Semesters)

No. of Credits: 2

Type of Credit: Science (Physical)

Notes: **W***

Prerequisite: Successful completion of Algebra II or concurrent enrollment with Algebra II or higher

Description: The course covers an in-depth study of matter and energy, including waves, sound, light, heat, forces, motion, work, kinetic theory, electricity, and magnetism.



SOCIAL STUDIES COURSE OVERVIEW

Core Courses

Social Studies 9 Grade 9 1 Semester	World History Grade 10 1 Year	United States History Grade 11 1 Year	American Government Grades 11-12 1 Semester
Geography Grade 9 1 Semester			General Psychology Grades 11-12 1 Year
			Sociology Grades 11-12 1 Semester

Honors & Advanced Placement (AP) Courses

	H World History Grade 10 1 Year		
AP Human Geography Grades 9-12 1 Year	AP European History Grades 10-12 1 Year	AP US History Grades 11-12 1 Year	AP US Government Grades 12 1 Year
		AP African American Studies Grades 11-12 1 Year	

SOCIAL STUDIES COURSE DESCRIPTIONS

9th Social Studies/Geography

Course Number: 25007/25010

Length: Year (2 Semesters)

Type of Credit: Social Studies (Survey/Geography)

Prerequisite: None

Description: This course is designed to introduce students to a variety of social science topics. This course will include the study of the environmental systems of climate 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.

Grade: 9-12

No. of Credits: 2

Notes: Graduation Requirement

AP African American Studies

Course Number: TBD

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: None

Description: TBD

Grade: 11-12

No. of Credits: 2

Notes: W**

AP American Government

Course Number: 25060

Length: Semester

Type of Credit: Social Studies (American Government)

Prerequisite: Students must have completed all junior credit requirements and be considered a first semester senior at the beginning of the course

Description: This is a college-level introductory course in American Government designed for the student intending to take the AP U.S. Government and Politics Exam in May. 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.

Grade: 12

No. of Credits: 1

Notes: W**

AP European History

Course Number: 25032 A/B

Length: Year (2 Semesters)

Type of Credit: Social Studies (

Prerequisite: Successful completion of Honors World History recommended

Description: This is a college-level course that carries significant time demands and requires students to apply themselves at all times. It is a survey of the development of Europe from the Renaissance to the present. Focusing on political, religious, social, and economic themes, this course is designed to challenge students' ability to think, learn, and apply knowledge in order to be exposed to a richer and deeper understanding of European history. The goal of this course is to provide college-bound students with requisite knowledge and skills to pass the AP exam in May.

Grade: 10-12

No. of Credits: 2

Notes: W**

AP Human Geography

Course Number: 25013 A/B

Length: Year (2 Semesters)

Type of Credit: Social Studies (Survey/Geography)

Prerequisite: None

Description: This is a college level survey course with significant time demands. This course allows students to develop advanced understanding of maps and spatial data, understanding of associations among places, recognition of relationships that influence geographic patterns and processes, evaluation of regionalization, and analysis of changing interconnections among places. Topics of study include population, cultural patterns, political organization of space, and agricultural and urban land use. The goal of this course is to provide the student with the requisite knowledge and skills to pass the AP exam in May.

Grade: 9

No. of Credits: 2

Notes: W**

AP United States History

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Course Number: 25031 A/B

Length: Year (2 Semesters)

Type of Credit: Social Studies (American History)

Prerequisite: Successful completion of Honors World History recommended

Description: This college level course is designed for students intending to take the AP exam. It is a survey of the development of the United States from the pre-Columbian period to the 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. This course will be a constant challenge, and students will be expected to continually apply themselves. The goals of this course are to lead the advanced student beyond superficial exposure to a richer and deeper understanding and more lasting retention, and provide the college-bound student with the requisite knowledge and skills to pass the AP exam in May.

Grade: 11-12

No. of Credits: 2

Notes: W**

American Government

Course Number: 25055 A/B

Length: Year Semester

Type of Credit: Social Studies (American Government)

Prerequisite: None

Description: This course is an in-depth look at the American governmental system. Citizenship, civil rights, and the political processes of American democracy are examined. An emphasis is placed on those "current events" that have a significant impact on domestic and foreign affairs. Critical analysis and higher level thinking skills are required throughout the course.

Grade: 11-12

No. of Credits: 1

Notes: Graduation Requirement

General Psychology

Course Number: 25035 A/B

Length: Year (2 Semesters)

Type of Credit: Elective

Prerequisite: Students must have completed all sophomore credit requirements and be considered a first semester junior at the beginning of the course

Description: 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 motivation, development, emotions, perception, personality theory, human interaction, abnormal behavior, applied psychology, and therapy. Topics to be examined include; conditioning, memory, problem solving, motivation & emotion, body & behavior, sensation & perception, development, personality theory, stress, disorders & therapy, and social psychology.

Grade: 11-12

No. of Credits: 2

Notes:

Honors World History

Course Number: 25020 A/B

Length: Year (2 Semesters)

Type of Credit: Social Studies (World History)

Prerequisite: This class is open to 10th graders only who have successfully completed 9th grade social studies and English courses

Description: Like the traditional World History course, Honors World History is a survey of world history from prehistory through the postmodern era. This course, however, requires the development of advanced historical inquiry skills for deeper understanding and preparation toward AP American History. Upon completion of this course, the student will be expected to demonstrate proficiency in historical inquiry skills to include research skills specific to analysis, synthesis, and evaluation of primary and secondary sources. In order to master these skills, the student will be expected to contract for significant outside reading; to include one novel per semester and original research, which demonstrates advanced writing skills.

Grade: 10

No. of Credits: 2

Notes: W*

Sociology

Course Number: 25040

Length: Semester

Type of Credit: Elective

Prerequisite: Students must have completed all sophomore credit requirements

Grade: 11-12

No. of Credits: 1

Notes:

Description: 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.

United States History

Course Number: 25027 A/B

Length: Year (2 Semesters)

Type of Credit: Social Studies (US History)

Prerequisite: None

Description: This course is a survey of the development of the United States from pre-Columbian to the Twentieth Century emphasizing social, political, and economic development of the history of the United States. Topics include - A New World, Struggle for Independence, Launching a Republic, Through a Democracy, Division and Reunion, Modern America, Imperialism, Progressivism, and Twentieth Century Conflicts.

Grade: 11

No. of Credits: 2

Notes: Graduation Requirement

World History

Course Number: 25015 A/B

Length: Year (2 Semesters)

Type of Credit: Social Studies (World History)

Prerequisite: None

Description: This course is a survey of world history from prehistory to present. Topics include Ancient Civilizations, Classical Civilizations, Medieval Europe, Renaissance, Reformation, Enlightenment, Industrialization, World Wars, and an ongoing analysis of the connection between events of the past and the modern world.

Grade: 10

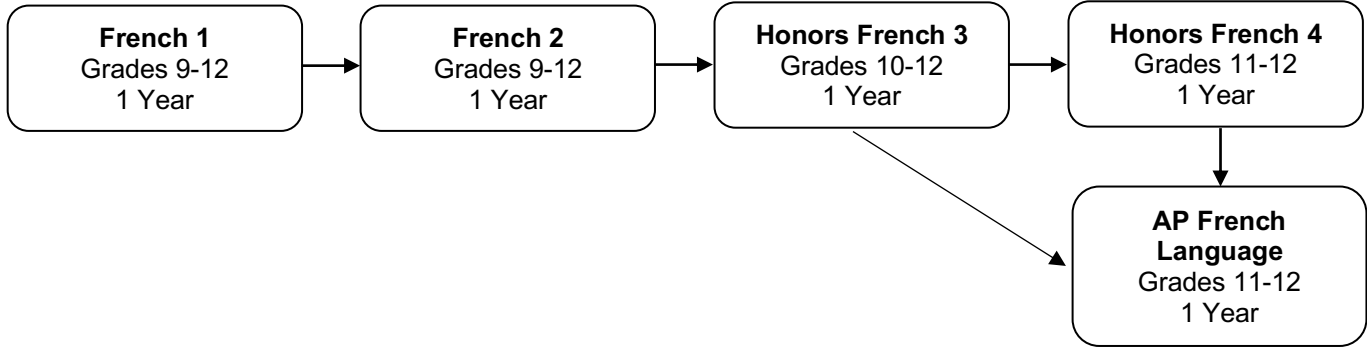
No. of Credits: 2

Notes: Graduation Requirement

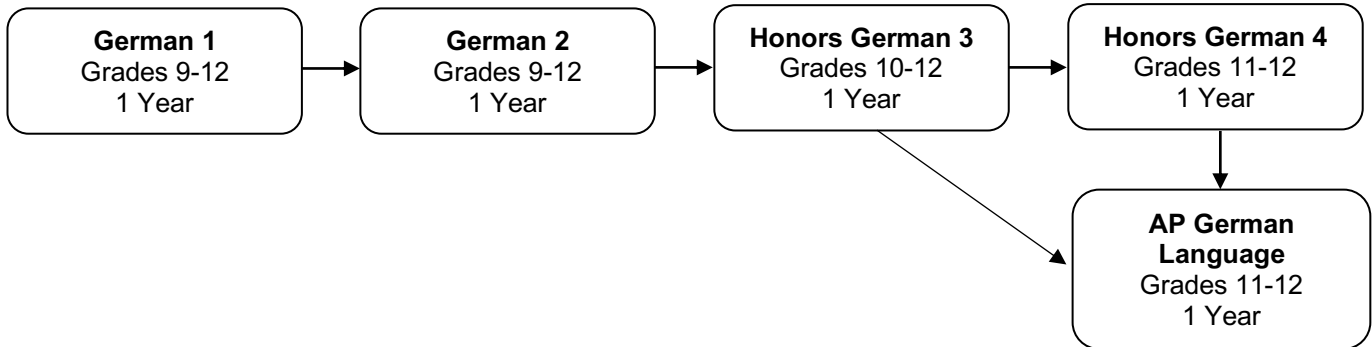


WORLD LANGUAGE COURSE OVERVIEW

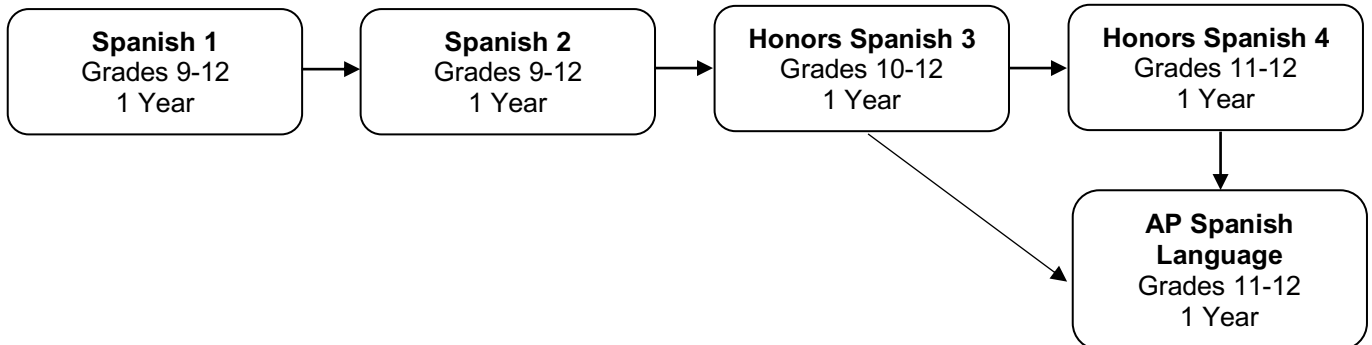
French



German



Spanish



FRENCH COURSE DESCRIPTIONS

French I

Course Number: 19005 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: None

Grade: 9-12
No. of Credits: 2
Notes:

Description: French I will focus on Novice-Mid communicative competence. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Francophone cultures will also be explored. Students will be able to talk about their lives, their family and friends, discuss and inquire about weather and pastimes, order food at a restaurant and talk about where people live.

French II

Course Number: 19010 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: French I or equivalent

Grade: 9-12
No. of Credits: 2
Notes:

Description: French II will continue building communicative competence to reach the Novice-High level. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Francophone cultures will be deepened and more reading will be required. Second year study enables students to expand vocabulary and explore the target language using more complicated structures and systems such as past tenses and reflexive verbs. As students increase their ability to understand, they will be speaking with more confidence and complexity. In addition, they will read short selections and stories at more advanced levels. They will be able to ask for and give simple directions as well as talk about life after school, clothing, and vacations.

Honors French III

Course Number: 19016 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: French II or equivalent

Grade: 10-12
No. of Credits: 2
Notes: W*

Description: French III will continue building communicative competence in Novice-High and reaching into Intermediate-Low performance levels. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Francophone cultures will be deepened and more authentic resources will be used for reading. The third year of language is the year when all the pieces of language come together. Students will read authentic pieces of literature, watch and comprehend foreign films, learn sophisticated vocabulary, grammar, syntax and speak and learn primarily in the target language. Third year language study offers students the opportunity to go far beyond the basics and attain a high level of fluency and competency in all language skills in the classroom all while earning 3 college credits. Grammar includes compound tenses, the subjunctive, object pronouns and the comparative and superlative. Activities may include creative, self-directed projects, prepared discussions and presentations. Students will be encouraged to communicate predominantly in the language. When completed, the students will be ready for Honors French IV and/or AP. **Note: There will be summer reading. Some universities require 3 years of a world language for admission. This course is currently eligible for CU Succeed credit.**

Honors French IV

Course Number: 19020 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: French III or equivalent

Grade: 10-12
No. of Credits: 2
Notes: W*

Description: French IV will focus on Intermediate-Low communicative competence. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Francophone cultures will be deepened and more authentic resources will be used for reading. Fourth-year courses enable students to attain a high degree of proficiency in speaking, reading, writing and understanding the language. Practice in listening, conversation skills and reading novels in the target language is emphasized along with

deeper understanding of history and traditions. Students learn advanced grammar and syntax and classes are conducted primarily in the target language. **Note: There will be summer reading and writing activities required for completion by the start of the course.**

AP French Language and Culture

Course Number: 19018 A/B

Length: Year (2 Semesters)

Type of Credit: World Language

Prerequisite: French III or equivalent and teacher recommendation

Grade: 10-12

No. of Credits: 2

Notes: W**

Description: AP French Language and Culture develops listening, speaking, reading, and writing skills for proficient communication in all three modes while constantly examining the cultural foundations of the French language inherent in its products, practices, and perspectives. The six themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics interlace throughout the course. The AP French Language course should help prepare students to demonstrate their level of French proficiency across three communicative modes (interpersonal [interactive communication], interpretive [receptive communication], and presentational [productive communication]), and the five goal areas as outlined in the Standards for Foreign Language Learning in the 21st Century (Communication, Cultures, Connections, Comparisons, and Communities). The course is meant to be comparable to fifth and sixth semester (or the equivalent) college and university courses that focus on speaking and writing in the target language at an advanced level. **Note: There will be summer reading and writing activities required for completion by the start of the course. Successful completion of this course will qualify you to take the AP exam.**

GERMAN COURSE DESCRIPTIONS

German I

Course Number: 19030 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: None

Grade: 9-12
No. of Credits: 2
Notes:

Description: German I will focus on Novice-Mid communicative competence. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Germanic cultures will also be explored. Students will be able to talk about their lives, their family and friends, discuss and inquire about weather and free time activities, order food at a restaurant and talk about where people live.

German II

Course Number: 19035 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: German I or equivalent

Grade: 9-12
No. of Credits: 2
Notes:

Description: German II will continue building communicative competence to reach the Novice-High level. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Germanic cultures will be deepened and more reading will be required. Second year study enables students to expand vocabulary and explore the target language using more complicated structures and systems such as past tenses and reflexive verbs. As students increase their ability to understand, they will be speaking with more confidence and complexity. In addition, they will read short selections and stories at more advanced levels. They will be able to ask for and give simple directions as well as talk about life after school, clothing, and vacations.

Honors German III

Course Number: 19041 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: German II or equivalent

Grade: 10-12
No. of Credits: 2
Notes: W*

Description: German III will continue building communicative competence in Novice-High and reaching into Intermediate-Low performance levels. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Germanic cultures will be deepened and more authentic resources will be used for reading.

The third year of language is the year when all the pieces of language come together. Students will read authentic pieces of literature, watch and comprehend foreign films, learn sophisticated vocabulary, grammar, syntax and speak and learn primarily in the target language. Third year language study offers students the opportunity to go far beyond the basics and attain a high level of fluency and competency in all language skills in the classroom all while earning three- college credits. Grammar includes compound tenses, the subjunctive, object pronouns and the comparative and superlative. Activities may include creative, self-directed projects, prepared discussions and presentations. Students will be encouraged to communicate predominantly in the language. When completed, the students will be ready for Honors German IV and/or AP. **Note: There will be summer reading. Some universities require 3 years of a world language for admission.**

Honors German IV

Course Number: 19045 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: German III or equivalent

Grade: 10-12
No. of Credits: 2
Notes: W*

Description: German IV will focus on Intermediate-Low communicative competence. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Germanic cultures will be deepened and more authentic resources will be used for reading. Fourth-year courses enable students to attain a high degree of proficiency in speaking, reading, writing and understanding the

language. Practice in listening, conversation skills and reading novels in the target language is emphasized along with deeper understanding of history and traditions. Students learn advanced grammar and syntax and classes are conducted primarily in the target language. **Note: There may be summer reading and writing activities required for completion by the start of the course.**

AP German Language and Culture

Course Number: 19042 A/B

Length: Year (2 Semesters)

Type of Credit: World Language

Prerequisite: German III/IV or equivalent and teacher recommendation

Description: AP German Language and Culture develops listening, speaking, reading, and writing skills for proficient communication in all three modes (interpersonal, interpretive, and presentational) while constantly examining the cultural foundations of the German language inherent in its products, practices, and perspectives. The six themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics interlace throughout the course. The AP German Language course should help prepare students to demonstrate their level of German proficiency across three communicative modes (interpersonal [interactive communication], interpretive [receptive communication], and presentational [productive communication]), and the five goal areas as outlined in the Standards for Foreign Language Learning in the 21st Century (Communication, Cultures, Connections, Comparisons, and Communities). The course is meant to be comparable to fifth and sixth semester (or the equivalent) college and university courses that focus on speaking and writing in the target language at an advanced level.

Note: There may be summer reading and writing activities required for completion by the start of the course.

Successful completion of this course will qualify you to take the AP exam.

Grade: 10-12

No. of Credits: 2

Notes: W**

SPANISH COURSE DESCRIPTIONS

Spanish I

Course Number: 19055 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: None

Grade: 9-12
No. of Credits: 2
Notes:

Description: Spanish I will focus on Novice-Mid communicative competence. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Hispanophone cultures will also be explored. Students will be able to talk about their lives, their family and friends, discuss and inquire about weather and pastimes, order food at a restaurant and talk about where people live.

Spanish II

Course Number: 19060 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: Spanish I or equivalent

Grade: 9-12
No. of Credits: 2
Notes:

Description: Spanish II will continue building communicative competence to reach the Novice-High level. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Hispanophone cultures will be deepened and more reading will be required. Second year study enables students to expand vocabulary and explore the target language using more complicated structures and systems such as past tenses and reflexive verbs. As students increase their ability to understand, they will be speaking with more confidence and complexity. In addition, they will read short selections and stories at more advanced levels. They will be able to ask for and give simple directions as well as talk about life after school, clothing, and vacations.

Honors Spanish III

Course Number: 19066 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: Spanish II or equivalent

Grade: 10-12
No. of Credits: 2
Notes: W*

Description: Spanish III will continue building communicative competence in Novice-High and reaching into Intermediate-Low performance levels. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Hispanophone cultures will be deepened and resources that are more authentic will be used for reading. The third year of language is the year when all the pieces of language come together. Students will read authentic pieces of literature, watch and comprehend foreign films, learn sophisticated vocabulary, grammar, syntax and speak and learn primarily in the target language. Third year language study offers students the opportunity to go far beyond the basics and attain a high level of fluency and competency in all language skills in the classroom all while earning three college credits. Grammar includes compound tenses, the subjunctive, object pronouns and the comparative and superlative. Activities may include creative, self-directed projects, prepared discussions and presentations. Students will be encouraged to communicate predominantly in the language. When completed, the students will be ready for Honors Spanish IV and/or AP.

Note: There will be summer reading. Some universities require three years of a world language for admission.

Honors Spanish IV

Course Number: 19070 A/B
Length: Year (2 Semesters)
Type of Credit: World Language
Prerequisite: Spanish III or equivalent

Grade: 10-12
No. of Credits: 2
Notes: W*

Description: Spanish IV will focus on Intermediate-Low communicative competence. Students completing the course will develop each of the three modes of communication: Interpersonal, Interpretive, and Presentational. Connections and comparisons to Hispanophone cultures will be deepened and resources that are more authentic will be used for reading. Fourth-year courses enable students to attain a high degree of proficiency in speaking, reading, writing and understanding the language. Practice in listening, conversation skills and reading novels in the target language is emphasized along with deeper understanding of history and traditions. Students learn advanced grammar, syntax, and classes are conducted

primarily in the target language. Note: There will be summer reading and writing activities required for completion by the start of the course in August.

AP Spanish Language and Culture

Course Number: 19067 A/B

Length: Year (2 Semesters)

Type of Credit: World Language

Prerequisite: Spanish III or equivalent

Description: AP Spanish Language and Culture develops listening, speaking, reading, and writing skills for proficient communication in all three modes while constantly examining the cultural foundations of the Spanish language inherent in its products, practices, and perspectives. The six themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics interlace throughout the course. The AP Spanish Language course should help prepare students to demonstrate their level of Spanish proficiency across three communicative modes (interpersonal [interactive communication], interpretive [receptive communication], and presentational [productive communication]), and the five goal areas as outlined in the Standards for Foreign Language Learning in the 21st Century (Communication, Cultures, Connections, Comparisons, and Communities). The course is meant to be comparable to fifth and sixth semester (or the equivalent) college and university courses that focus on speaking and writing in the target language at an advanced level.

Grade: 10-12

No. of Credits: 2

Notes: W**

Note: There will be summer reading and writing activities required for completion by the start of the course. Successful completion of this course will qualify you to take the AP exam in Spanish Language & Culture and should be successful in any university placement test.

AP Spanish Literature and Culture

Course Number: 19068 A/B

Length: Year (2 Semesters)

Type of Credit: World Language

Prerequisite: Spanish III or equivalent

Description: AP Spanish Literature and Culture is designed to introduce students to the formal study of Peninsular Spanish, Latin American, and U.S. Hispanic literature from the middle ages to the present day. The course aims to develop students' critical reading and analytical writing skills in Spanish to perform successfully on the AP exam in Spanish Literature, as well as develop students' ability to make interdisciplinary connections and explore linguistic and cultural comparisons. This class is taught entirely in Spanish, and students will be expected to communicate in Spanish appropriate to this level. The course covers the entire AP Spanish Literature and Culture required reading list. Students will be required to write essays to continue improving analytical writing, as well as participate in active discussions to analyze the different works of poetry, prose, and drama. Students will discuss literary texts and their varied historical, socio-cultural, and political contexts in a variety of activities and assignments. Finally, students will analyze themes and works of varied artistic representations, as well as audiovisual and audio resources, in relation to the course content. The AP Spanish Literature and Culture course should help prepare students to demonstrate their level of Spanish proficiency across three communicative modes interpersonal, interpretive, and presentational, and the five Standards for Foreign Language Learning in the 21st Century (Communication, Cultures, Connections, Comparisons, and Communities). The course is comparable to fifth and sixth semester college and university courses that focus on speaking and writing in the target language at an advanced level.

Grade: 10-12

No. of Credits: 2

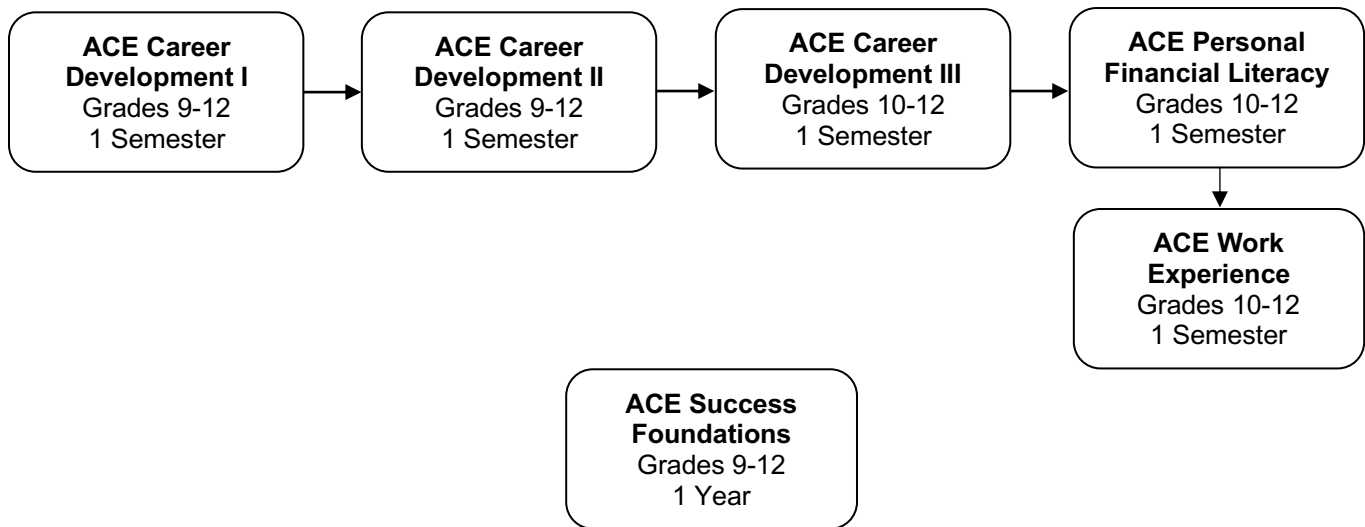
Notes: W**

Note: There will be summer reading required for completion by the start of the course. Students will have the opportunity to take the AP exam in Spanish Literature & Culture and should be successful in any university placement test.

*Spanish AP courses are offered on alternating years.

ELECTIVE PROGRAMS COURSE DESCRIPTIONS

ACE PROGRAM COURSE OVERVIEW



ACE PROGRAM COURSE DESCRIPTIONS

Please note: To meet **Alternate Graduation Competencies**, students must successfully complete a series of ACE coursework. ACE - Career Development I, ACE - Career Development II, and ACE - Personal Financial Literacy, and ACE - Work Experience. Each course is one semester. Throughout each course, students will compile a portfolio to display their postsecondary workforce readiness skills. Upon successful completion of the three ACE courses and the portfolio, students will earn “meets expectations” for both Math and English competencies.

ACE Career Development I

Course Number: 28311

Length: 1 semester

Type of Credit:

Prerequisite: None

Grade: 9-12

No. of Credits: 1

Notes:

Description: As developmentally appropriate, this course (*or series of courses*) is designed for students to create an individual, initial career plan that outlines steps to reach their career goal. Students will identify a career goal based upon results of various assessments, i.e. interest survey, aptitude evaluation, academic skills, learning styles, work preferences, etc. Students will also investigate the training and educational requirements (academic planning & postsecondary options) for their chosen career field. Students should be able to articulate short-term action necessary to achieve the goal(s) in their career plan; including intentional academic planning, high school choices based on self-awareness, career exploration and postsecondary aspirations.

ACE Career Development II

Course Number: 28312

Length: 1 semester

Type of Credit:

Prerequisite: ACE Career Development I

Grade: 9-12

No. of Credits: 1

Notes:

Description: As developmentally appropriate, this course (*or series of courses*) is designed to teach skills needed for entry into the workforce. Students will demonstrate successful job search strategies. Students will demonstrate employability skill ability to accurately complete job applications, write a resume, and ask for letters of recommendation. Students will examine model interviews and then participate in their own interview simulations. Students will be able to advocate for accommodations or adaptations necessary to be successful on the job. Students will be knowledgeable of the environmental expectations of the workplace. Additionally, students will be introduced to personal financial literacy skills

including: financial planning, budgeting, saving, credit, paycheck calculation, and taxes. Students practice appropriate communication, teamwork, problem solving while working in a group environment.

ACE Career Development III

Course Number: 28313

Length: 1 semester

Type of Credit: Elective

Prerequisite: ACE Career Development I, ACE Career Development II

Description: As developmentally appropriate, this course (or series of courses) is designed for students to learn about various employability skills necessary to meet and exceed employer expectations on the job by developing workplace skills such as interpersonal communication, teamwork, leadership, critical thinking and ethical decision making in the workplace. Students will evaluate employee benefit plans (medical, dental, vision, worker's compensation, unemployment, retirement plan, employee discounts, educational incentives, etc.). Additionally, students will recognize opportunities for advancement on the job. Students will become familiar with workplace laws and policies, including Child Labor Laws, Fair Labor Act, Equal Employment Opportunity, and Workplace Safety (OSHA), Americans with Disability Act (disability disclosure as appropriate), Sexual Harassment (definition, scenarios, appropriate behavior, policies and procedures).

Grade: 10-12

No. of Credits: 1

Notes:

ACE Personal Financial Literacy

Course Number: 28328

Length: Year

Type of Credit: Elective

Prerequisite: NONE

Description: This course is designed for students to learn and practice financial literacy, decision-making, and management skills for their personal and professional lives. Students will create and modify budgets according to new circumstances. Students will be practicing basic banking activities such as check writing, debit card use, deposits and keeping track of a spending register as well as explore online banking and banking apps to compare and contrast several types of financial institutions. Students will examine the benefit and detriment of managing credit. Students will apply practical application of fiscal management topics such as renting vs owning, mortgage calculators, new car vs used car purchase, how to get a car loan, financial calculator use, understanding payroll deductions and benefits, income tax and filing taxes, and comparing and contrasting insurance possibilities. Students will demonstrate knowledge of FAFSA, loans, grants scholarships and other postsecondary financial supports. They will examine the many ways to invest money and participate in simulations involving investing.

Grade: 9-12

No. of Credits: 1

Notes:

ACE Success Foundations

Course Number: 28324

Length: Year

Type of Credit: Elective

Prerequisite: NONE

Description: This course focuses on personal/self-awareness. This class provides students opportunities to explore and develop personal and academic skills that are foundational to successful transition into the working world. Teachers will facilitate students learning and implementing academic discipline skills, mindsets, and behaviors for successful academic course completion, help them to identify methods for setting goals for personal improvement and continuous growth in an academic area, and explain the purpose of fundamental tools used to pursue a career path.

Grade: 9-12

No. of Credits: 2

Notes:

Students will apply critical thinking skills to make informed, ethical, and socially responsible choices. They will also work on implementing essential routines for physical and mental health maintenance and personal safety, including emotion regulation, positive communication skills, decision-making, goal setting, time management, advocacy, problem solving, conflict resolution, self-awareness, personal responsibility, work ethic, stress management, and appropriate personal/social and conflict resolution skills. Students will investigate how all of these factors influence successful career habits.

ACE Work Experience

Course Number: 28323

Length: Semester

Type of Credit: Elective

Grade: 10-12

No. of Credits: 1

Notes:

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

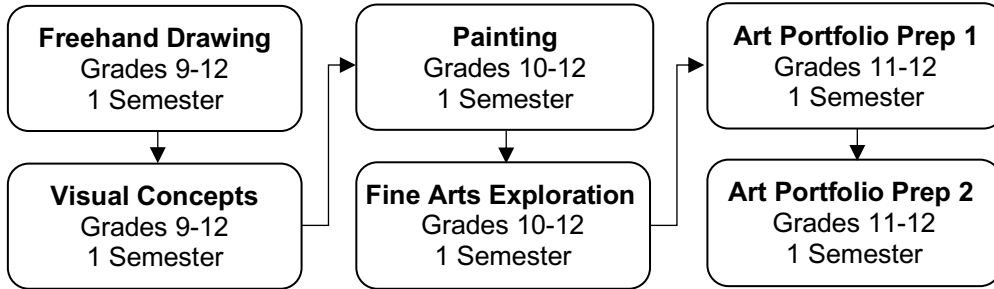
Prerequisite: NONE

Description: ACE Work Experience is an elective class that is designed for students to develop basic employability skills. Students will develop ethical work habits, self-awareness, self-confidence, and job skills, which can be used to locate, secure and retain employment, and enhance postsecondary career development plans.

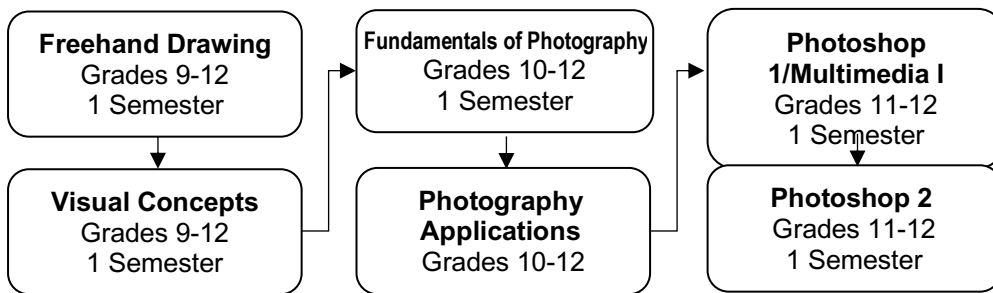
ART DEPARTMENT COURSE OVERVIEW

Foundations of Art & Design
Grades 9-12
1 Semester

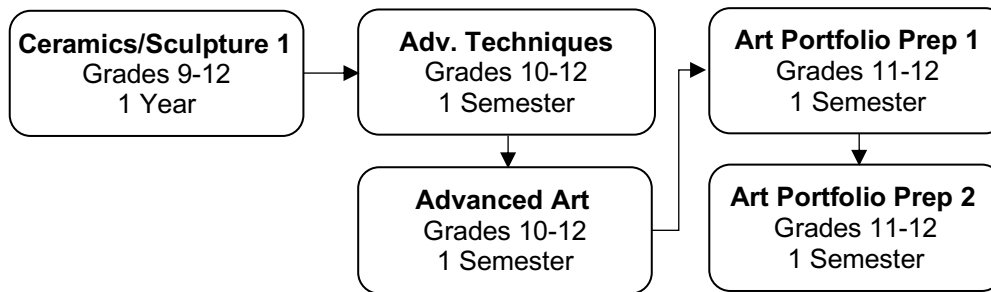
2-D Art



Multimedia



3-D Art



Please note that the Art courses must be taken in order. Ceramics & Sculpture I & II and Art Portfolio Prep I & II must be taken in the same school year.

Students with little or no art experience can take Foundations of Art & Design before taking any of the pathways or if a only a semester of art is needed, but this is not a required pre-requisite for any of the pathways.

ART DEPARTMENT COURSE DESCRIPTIONS

Foundations of Art & Design

Course Number: 15009

Length: Semester

Type of Credit: Personal Development (Fine Arts)

Prerequisite: NONE

Grade: 9-12

No. of Credits: 1

Notes:

Description: This course is an introductory class that looks at multiple media and techniques. This course is a survey class where students will learn the elements and principles of design that are the building blocks essential to any design or marketing career. While studying these building blocks you will get technical experience in color theory, 3D work, and techniques on further developing right versus left-brain. You also get extensive experience in learning how to go through the creative process using critical and problem solving skills. This class will enhance students 21st Century Skills needed in any workplace. (Formerly Art I)

2-D COURSE DESCRIPTIONS

Fine Arts Exploration

Course Number: 15040

Length: Semester

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Painting, and/or art teacher recommendation

Grade: 10-12

No. of Credits: 1

Notes:

Description: This course provides students the opportunity to work in a variety of fine art materials for painting with alternative materials: Fibers, Metals, Glass, Photography, and working with mixed media materials. Before taking this class, student must have an understanding of basic art principals, which can be met through any beginning art class. (This course is the second semester of Painting)

Freehand Drawing

Course Number: 15010

Length: Semester, S1 Only

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Foundations of Design, previous art classes, and/or art teacher recommendation

Grade: 10-12

No. of Credits: 1

Notes:

Description: 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 principles of composition, (i.e. movement, scale and how to render accurate proportions). A wide variety of techniques and media are 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, analyzing skills into their work. Students will also be required to create a portfolio as well as to participate in an end of the course exhibition with the community.

Visual Concepts 2D (This is the second semester course of Freehand Drawing)

Course Number: 15054

Length: Semester, S2 Only

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Freehand Drawing, and/or art teacher recommendation

Grade: 10-12

No. of Credits: 1

Notes:

Description: Students will demonstrate the basic visual elements of art (line, shape, color, form, texture, space and value) as well as the principles of design (Balance, Scale, Proportion, Movement, Dominance, Unity and Variety, Harmony, Rhythm and repetition) through projects as they relate to two-dimensional media in design, visual perception, artistic form and composition. This will include work with the following: pencil, charcoal, pastels, oil pastels, colored pencils, watercolor paints, printmaking, acrylic paints, ink and mixed media (mixing visual art with non-visual elements), Illustrator and Animate. Projects are designed around a career focus to include book illustrations, logos, storybooks, comic books and character design, fashion design, animation.

Painting

Course Number: 15016

Length: Semester

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Freehand Drawing & Visual Concepts, and/or art teacher recommendation

Grade: 10-12

No. of Credits: 1

Notes:

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Description: 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.

3-D COURSE DESCRIPTIONS

Advanced Art I

Course Number: 15025

Length: Semester

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Advance Techniques and/or teacher recommendation, Lab Fee

Description: This course provides an opportunity for the student to prepare a more complex body of work (portfolio), develop a personal artistic statement, and exploring a career in art or art related fields. The curriculum includes advanced 3D techniques and a wide variety of art material use such as 3D printing, casting, textile manipulation, etc. The opportunity for a more independent approach to projects is available to the more advanced art students. (Adv. Art I is the second semester of Adv. Techniques)

Grade: 10-12

No. of Credits: 1

Notes:

Advanced Techniques & Application

Course Number: 15045

Length: Semester

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Ceramics & Sculpture I & II and/or art teacher recommendation

Description: This course focuses on advance techniques taught in the previous classes in this pathway. It exposes students to new techniques that they can apply their knowledge from either the painting or 3D modeling pathways into these new methods. Methods and media included but not limited to are: cold connections in jewelry smithing, fused glass for jewelry and small works, textile manipulation/creation techniques, and marbling. In this course, students will also learn how to photograph works of art on a professional level in an effort to prepare them for submitting portfolios to colleges and universities or galleries. All work is submitted online for grading.

Grade: 10-12

No. of Credits: 1

Notes:

Ceramics & Sculpture I

Course Number: 15020 A/B

Length: Year (2 semesters)

Type of Credit: Personal Development (Fine Arts)

Prerequisite: NONE

Description: This semester course is designed to introduce students to the realm of 3D form by using traditional methods of drawing, painting, and sculpting to learn basic and advanced artistic principles. Students will demonstrate the fundamentals of 3D such as modeling, casting, carving, and the processes of assemblage. Students will learn how to utilize industry design software, such as Photoshop and other adobe products, to create art virtually in both 2-D and 3-D, create 2-D and 3-D prototypes of their virtual art using scanners, large format printing, and color printing. This class will introduce the necessary interdisciplinary skills to work in careers and feed into other pathways, such as computer science, engineering, CAD, business, Construction, Manufacturing and more. In the 2nd semester of the course, students will continue to build on the knowledge gained from Ceramics & Sculpture first semester. Students will continue to demonstrate more advanced skills 3D modeling, casting, carving, and the processes of assemblage and applies them into current work industries such as: costume design and mask creation, set design and clay animation/stop motion films, Installation Art, 3-D Printing industry, and even Reclaimed/Green Art. Students will learn more advanced skills in 3-D printing, laser engraving, CNC output devices and possibly CNC milling. This exposes students to real life application and career opportunities in the realm of 3D art.

Grade: 9-12

No. of Credits: 2

Notes:

Art Portfolio Prep I & II

Course Number: 15026 & 15027

Length: Year (2 Semesters)

Type of Credit: Personal Development (Fine Arts)

Prerequisite: All previous classes in a pathway completed, and/or teacher recommendation

Description: This course provides an opportunity to further develop advanced techniques learned in previous art courses and provide a means to develop a portfolio ready for submitting to AP credit, a university, or career application. Students

Grade: 11-12

No. of Credits: 2

Notes:

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

will be required to not only submit a portfolio of their best work at the end of class, but also have developed a personal artist statement reflecting on their artistic journey through the program. These courses prepare students for a career in art or an art related field. There will be a heavy emphasis on Advanced Techniques with a wide variety of Medias with the opportunity to have an individual focus.

MULTIMEDIA COURSE DESCRIPTIONS

Fundamentals of Photography

Course Number: 15050

Length: Semester (S1 Only)

Type of Credit: Personal Development (Fine Arts)

Prerequisite: NONE

Description: 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 DSLR (digital single lens reflex) 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. 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.

Grade: 9-12

No. of Credits: 1

Notes:

Photography Applications

Course Number: 15052

Length: Semester (S2 Only)

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Fundamentals of Photography

Description: This course will concentrate on advanced skills of photography learned from previous classes with genres of photography as a focus. Students will demonstrate a knowledge in camera use, studio lighting, compositional skills, exposure control and working with human and non-human subjects. These concepts will be applied to the capabilities of Adobe programs (Photoshop, Bridge, Light Room, etc.) and students will demonstrate how these tools are used to create digital artwork (including their photographs and drawings) for careers in film, web design, print media, digital screen design or portrait and product photography.

Grade:9-12

No. of Credits: 1

Notes:

Photoshop & Multimedia I & II

Course Number: 15055A, 15055B

Length: Year (2 semesters)

Type of Credit: Personal Development (Fine Arts)

Prerequisite: Fundamentals of Photography, Photography & Applications, and/or art teacher recommendation

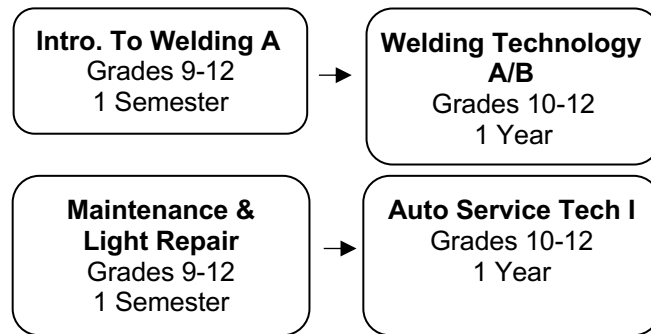
Description: Students will further demonstrate advanced techniques and will develop a portfolio to submit for career opportunities in commercial arts and to collaborate on real world problems/situations. At this point, students will focus on a career field in such areas as, photography, illustration, animation, or Multimedia design using skills they have learned in previous classes (i.e. Printmaking, Illustrator, Animate, Photoshop, etc.). They will relate these skills to industry by researching career opportunities and perfecting their portfolio to that specific field. The elements and principles of design (line value, texture, form, patterns scale, spatial awareness, unity balance, color and proportion) will be a guiding force as the process and work is critiqued along the way. Teacher and student will collaborate to illustrate a variety of skills and techniques as well as proving the worth of focusing on a chosen concentration.

Grade: 10-12

No. of Credits: 2

Notes:

AUTOMOTIVE PROGRAM COURSE OVERVIEW



AUTOMOTIVE PROGRAM COURSE DESCRIPTIONS

Automotive Service Technology I A/B

Course Number: 27031

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Maintenance and Light Repair

Description: 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. The skills and experiences gained in this course will prepare the student to earn an entry-level student certification with the National Institute of Automotive Excellence (ASE). Students that rapidly excel and are highly motivated will earn the opportunity to take the ASE G1, A4, A5, and A6 exams to obtain ASE Student Certifications.

Grade: 10-12

No. of Credits: 2

Notes:

Intro to Welding Technology

Course Number: 27016

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: The Introduction to Welding is a one semester-long, one-period class offered at Mesa Ridge High School. This course begins with safety training and measurement review and then introduce welding areas of operation such as oxy-acetylene, arc (stick), and wire feed (MIG), along with forming, grinding, cutting, and polishing of mild steel. Students utilize multiple metalworking, and welding processes learned in the course to create an assigned final project that they customize.

Grade: 9-12

No. of Credits: 1

Notes:

Maintenance and Light Repair A

Course Number: 27006

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: 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, hydraulic braking systems, cooling systems, lubrication systems, and preventative maintenance. Students will also discover how disc and drum brake systems operate, how to determine the cause of failure in both systems, and how to correct and repair disc, drum, and hydraulic brake system

Grade: 9-12

No. of Credits: 1

Notes:

failures. Students will also receive instruction on how vehicle suspension systems are designed and how they operate. Students will analyze suspension/steering system failure symptoms to determine the appropriate repair plan to return the vehicle to the road. Finally, students will be introduced to the basics of automotive electronics. Students will study how the battery, charging system, starting system, and how different electrical circuits operate. Students will gain valuable experience using various electrical diagnostic tools while tracing wiring problems in the shop lab. The skills and experiences gained in this course will prepare the student to earn an entry-level student certification with the National Institute of Automotive Excellence (ASE). Students that rapidly excel and are highly motivated will earn the opportunity to take the ASE G1, A4, A5, and A6 exams to obtain ASE Student Certifications.

WELDING TECHNOLOGY A/B

27009A

Yearlong course taken at the MiLL, Semester 1

Prerequisite: **Intro to Welding Tech**

Welding Technology A takes many of the skills from the intro class and develops them further. Heavier emphasis is placed on arc welding (stick) and wire feed (MIG) techniques in flat, horizontal, vertical, and overhead positions. Oxy-acetylene cutting is introduced as well. In the second half of each semester, students design and fabricate an individual final project demonstrating their cumulative metalworking experiences. Before beginning the build, each metalworker must create hand-drawn plans, develop a bill of materials for ordering steel, calculate project costs, and create a cut list for their raw materials.

WELDING TECHNOLOGY A/B

27009B

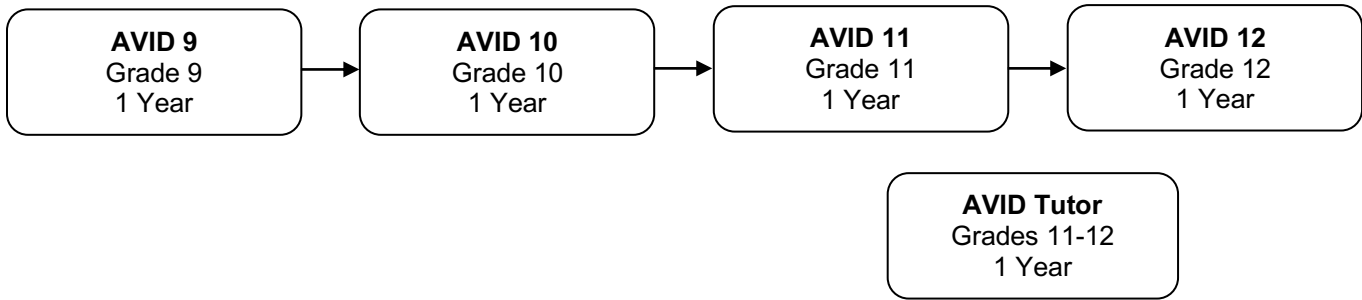
Yearlong course taken at the MiLL, Semester 2

Prerequisite: **Welding Technology A/B, Semester 1**

Welding Technology B was created to offer metalworking students an introduction course to the Tungsten Inert Gas Welding (TIG) process used to join mild steel, stainless steel, or aluminum using techniques similar to oxy-acetylene filler rod welding from Welding Technology A. The course structure follows the general path of the preceding courses with practice weld assignments to develop students' TIG welding skills in multiple positions and with various structural materials such as sheet metal, plate, and tubing. This course includes a final project that is assembled with newly developed TIG welding skills.

AVID-Advancement Via Individual Determination

AVID COURSE OVERVIEW



AVID PROGRAM COURSE DESCRIPTIONS

Advancement Via Individual Determination (AVID)

Course Number: 26080 (9th), 26085 (10th), 26090 (11th), 26095 (12th)

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Application process required

Description: AVID (Advancement via Individual Determination) is offered as an elective course that prepares students for entrance into four-year colleges. There is an emphasis on analytical writing, preparation for college entrance and placement exams, study skills and test taking, note taking, and research. Students receive instruction in college entry skills, tutor-led study groups, motivational activities and academic survival skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, and reading to support their academic growth.

Grade: 9-12

No. of Credits: 2

Notes:

AVID Tutor

Course Number: 26018 A/B

Length: Year (2 semesters)

Type of Credit: Application process required

Prerequisite: Teacher recommendation

Students in this class will implement goals and objectives of the AVID program by using AVID strategies such as WICOR and tutorials. They will coach and debrief with AVID elective students on the tutorial process. They will also monitor the tutorial work and work collaboratively with groups of AVID students. Tutors will then be included in out of school events such as field trips and after school opportunities. Students must be recommended, apply, and be accepted.

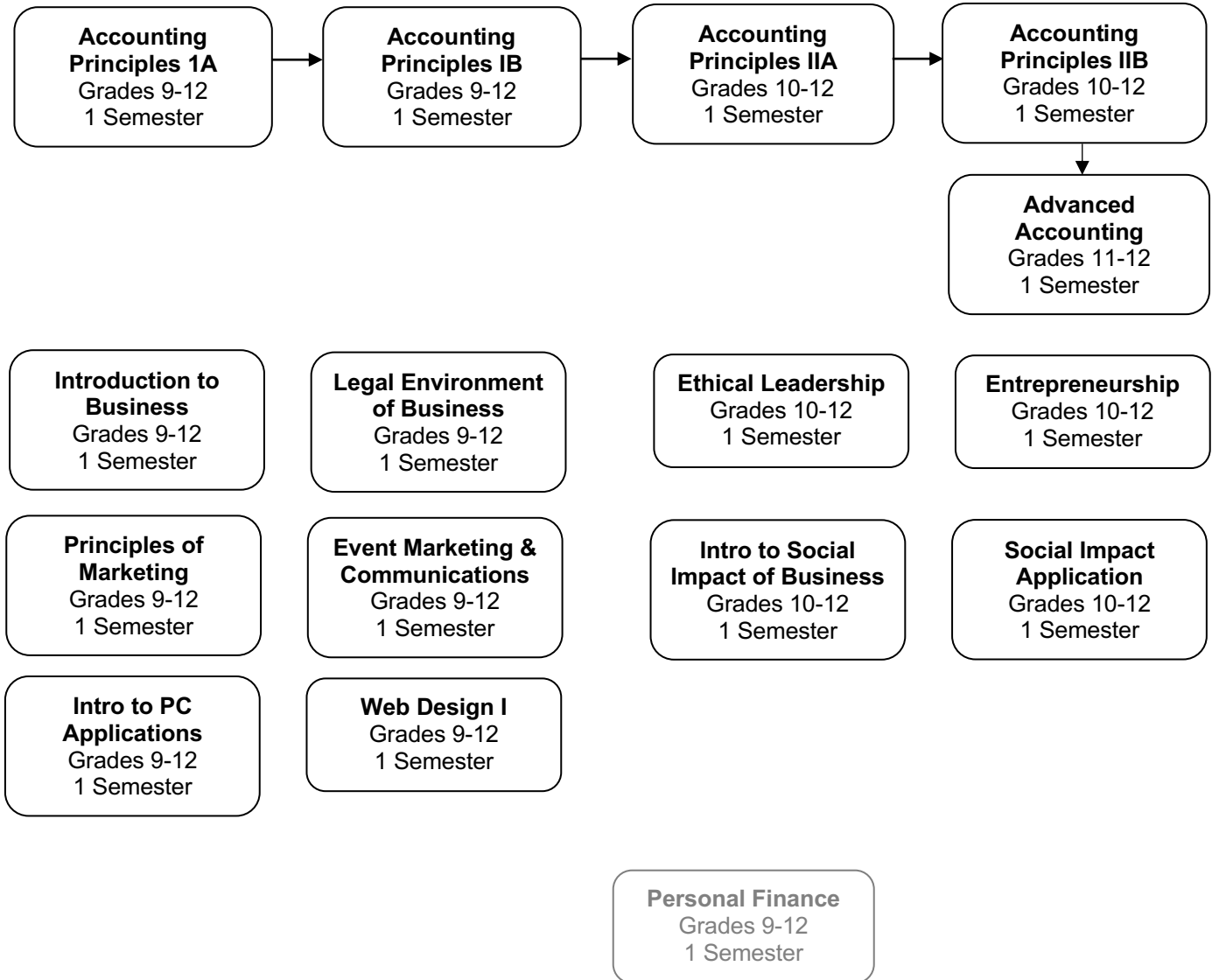
Grade: 11-12

No. of Credits: 2

Notes: Pass/Fail Grading

Business, Management, & Marketing

BUSINESS PROGRAM COURSE OVERVIEW



BUSINESS PROGRAM COURSE DESCRIPTIONS

Accounting Principles IA

Course Number: 16031

Length: Semester, S1 Only

Type of Credit: Elective

Prerequisite: NONE

Grade: 9-12

No. of Credits: 1

Notes:

Description: 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 asset accounting.

Accounting Principles IB

Course Number: 16036

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: Accounting Principles IA

Grade: 9-12

No. of Credits: 1

Notes:

Description: 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 principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting. (Previously Accounting II)

Accounting Principles IIA

Course Number: 16042

Length: Semester, S1 Only

Type of Credit: Elective

Prerequisite: Accounting Principles IA & IB

Grade: 10-12

No. of Credits: 1

Notes:

Description: This course continues the application of accounting principles to business organizations. Major topics include corporate equity and debt financing, investments, cash flow statements, financial analysis, budgeting, cost and managerial accounting. (Previously Accounting III).

Accounting Principles IIB

Course Number: 16046

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: Accounting Principles IIA

Grade: 10-12

No. of Credits: 1

Notes:

Description: This course continues the application of accounting principles to business organizations. Major topics include corporate equity and debt financing, investments, cash flow statements, financial analysis, budgeting, cost and managerial accounting. (Previously Accounting IV).

Advanced Accounting

Course Number: 16051

Length: Semester

Type of Credit: Elective

Prerequisite: Accounting Principles IIA & IIB

Grade: 11-12

No. of Credits: 1

Notes:

Description: This course continues the application of accounting principles to business organizations. Major topics include corporate equity and debt financing, investments, cash flow statements, financial analysis, budgeting, cost and managerial accounting. (Previously Accounting V).

Desktop Publishing

Course Number: 16026

Length: Semester

Type of Credit: Elective

Prerequisite: PC Applications and Word Processing

Grade: 9-12

No. of Credits: 1

Notes:

Description: This course is designed for the student who would like to learn advanced editing and formatting functions in word processing. Students will learn to manipulate text and graphics to produce flyers, brochures, and other professional

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

documents. Emphasis will be placed on designing quality publications that may be used in business. Passing this course with a “B” or better grade will waive Desktop Publishing (CIS 137) at Pikes Peak Community College and transfer to other community colleges in Colorado.

Ethical Leadership

Course Number: 16101

Length: Semester, S1 Only

Type of Credit: Elective

Prerequisite: NONE

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

Grade: 10-12

No. of Credits: 1

Notes:

Entrepreneurship

Course Number: 16095

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: NONE

Description: 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.

Grade: 10-12

No. of Credits: 1

Notes:

Event Marketing/Communications

Course Number: 16076

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: 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.

Grade: 9-12

No. of Credits: 1

Notes:

Intro. to Business

Course Number: 16220

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

Grade: 9-12

No. of Credits: 1

Notes:

Intro. to PC Applications

Course Number: 16056

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: This course introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet.

Grade: 9-12

No. of Credits: 1

Notes:

Intro to Social Impact of Business

Course Number: 16221

Grade: 10-12

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Length: Semester, S1 Only

Type of Credit: Elective

Prerequisite: NONE

Description: This class will combine business strategies with purpose-based thinking. As more and more businesses and nonprofits move to this model, students will learn how to apply these concepts in the community. Students will explore concepts such as: Business Ownership, Intro to Social Impact; Ethics; Capitalism and Free Enterprise Evolution; History of Nonprofits and will learn how to create a sustainable business while doing well for communities.

No. of Credits: 1

Notes:

Legal Environment of Business

Course Number: 16061

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: 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.

Grade: 9-12

No. of Credits: 1

Notes:

Personal Finance

Course Number: 16086

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

Grade: 9-12

No. of Credits: 1

Notes:

Principles of Marketing

Course Number: 16071

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: 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.

Grade: 9-12

No. of Credits: 1

Notes:

Social Impact Application

Course Number: 16222

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: Intro to Social Impact for Business

Description: In this course, students will explore more practical applications of Social Impact. This course is designed to be project based and focuses on integrating work based learning to include site visit field trips, job shadowing, informational interviews with Social Entrepreneurs in our community, and a final project. The focus will be on seeing how Social Impact businesses function in our community and learn firsthand about the issues they are trying to solve through social impact business strategies.

Grade: 10-12

No. of Credits: 1

Notes:

Web Design I

Course Number: 16028

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: 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. Passing this course with a "B" or better grade will waive Web Design I (MGD 141) at Pikes Peak Community College and transfer to other community colleges in Colorado.

Grade: 9-12

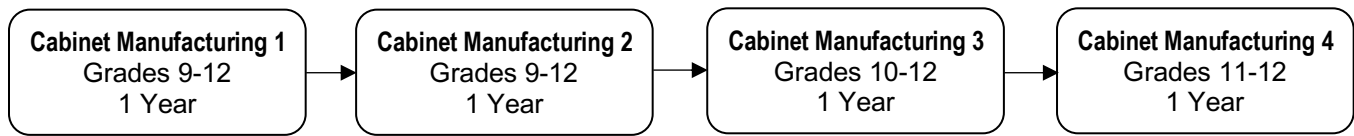
No. of Credits: 1

Notes:

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Cabinet Manufacturing Pathway

CABINET MANUFACTURING COURSE OVERVIEW



CABINET MANUFACTURING COURSE DESCRIPTIONS

Cabinet Manufacturing 1

Course Number: 27011 A/B

Length: Year (2 Semesters)

Type of Credit: Elective/CTE Math

Prerequisite: NONE

Grade: 9-12

No. of Credits: 2

Location: MiLL (transportation provided)

Description: In Cabinet Manufacturing 1, 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 how to safely use high quality machinery. The cabinet includes a hardwood face frame, legs, door, drawer and tabletop. Assembly of the cabinet utilizes rabbet and dado joints construction. Students also receive an introduction to CNC automated technology. Students earn 1 Elective credit and 1 CTE Math credit for this course.

Cabinet Manufacturing 2

Course Number: 27012 A/B

Length: Year (2 semesters)

Type of Credit: Elective/CTE Math

Prerequisite: Cabinet Manufacturing 1

Grade: 9-12

No. of Credits: 2

Location: MiLL (transportation provided)

Description: In Cabinet Manufacturing 2, students build a small profile table from solid hardwoods using Mortise and Tenon joints. Advanced manufacturing equipment is used to continue student 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 solid hardwood. More advanced CNC technologies are learned as students produce some of the Greene & Greene accents on the Legacy CNC router. Students earn 1 Elective credit and 1 CTE Math credit for this course.

Cabinet Manufacturing 3

Course Number: 27013 A/B

Length: Year (2 semesters)

Type of Credit: Elective/CTE Math

Prerequisite: Cabinet Manufacturing 2

Grade: 10-12

No. of Credits: 2

Location: MiLL (transportation provided)

Description: In Cabinet Manufacturing 3, students use Lean Manufacturing practices to build a Skills USA table. The cabinet features Mortise & Tenon joinery produced on the 3 axis JDS Multi Router. It has an edge banded plywood carcass, 5 piece door, dovetailed drawer, external 4 piece legs, veneer top, and custom lathe turned handles. Students use software to produce drawings and the bill of materials. Student earn 1 Elective credit and 1 CTE Math II credit for this course.

Cabinet Manufacturing 4

Course Number: 27014 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Cabinet Manufacturing 3

Grade: 11-12

No. of Credits: 2

Location: MiLL (transportation provided)

Description: Students will use Lean Manufacturing and will be tasked with taking an existing plan, a tool chest (replicating a customer's idea in the business world), modifying that plan, submitting a bill of materials, a bill of sale and a scale drawing. Students will learn and be expected to bid the project, establish timelines, price out materials, as well as continuing to learn new techniques involved with cabinet construction. Students will then be tasked with programming their tool chest on the CN C technology in the shop, assembling, personalizing, and finishing their tool chest. 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 the CNC equipment in the shop. Students earn 2 elective credits for this course.

Concurrent Enrollment

COURSE DESCRIPTIONS

Career Start Program at PPSC

Course Number: 28060

Length: Year

Type of Credit: Varies

Prerequisite:

- Must be classified as a senior and have a minimum of 38 semester credits prior to the beginning of the school year.
- Must have own transportation and parent permission, good attendance record, a genuine interest in chosen area of study.
- Must apply through the Counseling Center and go through a group interview process during Junior Year enrollment period.
- Must be approved by the Career Start Counselor and Counseling Center Committee.

Description The Career Start Program (CSP) is a college program designed to give students the skills and knowledge needed to obtain employment in various occupational/career areas. CSP classes are held at Pikes Peak Community College. Students participating in the Career Start Program attend PPCC half a day and MRHS the other half a day for a full year. Students participating in this program will attend PPCC in the morning - 9:00 am to 11:40 am - then return to the high school for afternoon classes. Students receive high school credit for their CSP classes, and School District No. 3 pays for their tuition. A limited number of students will be permitted to attend Pikes Peak Community College each academic year at no cost to the student if the course is passed. Students will earn one high school credit for every three-college credit hours completed.

Grade: 12

No. of Credits:

Location: PPCC (transportation NOT provided)

Concurrent Enrollment (General)

Course Number: 26060

Length: Semester

Type of Credit: Elective

Prerequisite: Good attendance and discipline records.

Parent/student information for attending classes at Pikes Peak Community College for Concurrent Enrollment:

1. Classes that are not offered at the high school are eligible for Concurrent Enrollment.
2. If student has exhausted or completed classes at the high school, classes at the college are eligible for Concurrent Enrollment.
3. Classes must fit into student's post-secondary plans and be reflected in the Individual Career and Academic Plan.
4. Only Tuition is paid by District 3. Student fees and books are the responsibility of the student/family.
5. Student/Family is responsible for own transportation to and from the college.
6. Students interested must complete the needed steps for enrollment which include meeting with the Concurrent Enrollment Coordinator and completion of the needed paperwork for the program by the specified deadlines.
7. Student works with High School Counselor in coordinating school and College Enrollment Class schedule.

Grade: 11-12

No. of Credits:

Location: PPCC (transportation NOT provided)

Cosmetology

Course Number: 27085 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Good attendance and discipline records.

Description: This program is designed to qualify students to gain employment in the personal care industry and to prepare them to take the state board of certification exams for cosmetology. This program will teach regulations, safety, and best practices for haircutting, chemical treatments, hairstyling, and other salon skills such as scheduling and management. This program is off site at International Salon and Spa Academy. * The district pays for tuition only. The student is responsible for the cost of the training kit, which is around \$200.

Grade: 12

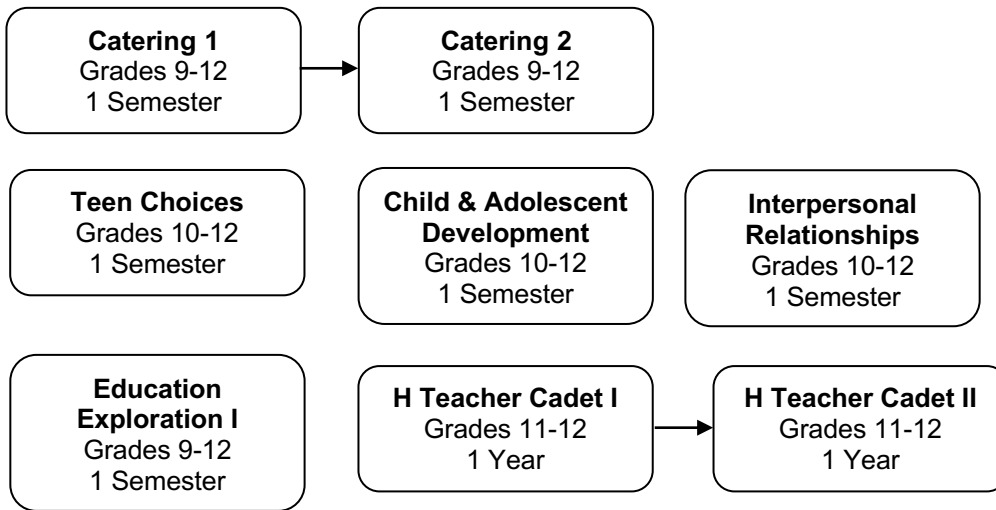
No. of Credits: 2

Location: ISSA (transportation NOT provided)

Notes: Fee*

Family and Consumer Sciences

FAMILY & CONSUMER SCIENCES COURSE OVERVIEW



FAMILY & CONSUMER SCIENCES COURSE DESCRIPTIONS

Catering 1

Course Number: 17038

Length: Semester, S1 Only

Type of Credit: Elective

Prerequisite: NONE

Description: 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.

Grade: 9-12

No. of Credits: 1

Catering 2

Course Number: 17039

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: Catering I

Description: 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.

Grade: 9-12

No. of Credits: 1

Child and Adolescent Development

Course Number: 17022

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: 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.

Grade: 10-12

No. of Credits: 1

Career Choices

Course Number: 16105

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Grade: 9-12

No. of Credits: 1

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Description: In this course, you will be able to identify career interest areas based on your goals, individual skills, and aptitudes. Investigate interests, abilities, and goals through various projects, and career testing procedures. Students will develop a usable education and career portfolio containing items necessary for post-secondary education and job search. Interact with professionals who work in various career areas through career panels, a job shadow, and a mock interview.

Education Exploration I

Course Number: 27091

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Grade: 9-12

No. of Credits: 1

Description: Students will discover their own learning style, how learning styles affects teaching, and how to develop and delivery 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 without meeting the 3.0 G.P.A. requirement.

Honors Teacher Cadet I

Course Number: 27090 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Teacher approval. Application, including parent & student signatures on Expectations sheet.

Description: 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 honors elective 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, UNC Greeley, or CSU Pueblo. Please see instructor for details.

Grade: 10-12

No. of Credits: 2

Notes: W*

Honors Teacher Cadet II

Course Number: 27095 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Honors Teacher Cadet 1; Teacher approval. Application, including parent & student signatures on Expectations sheet.

Description: Teacher Cadet II will provide additional field experience for those students who have completed the Honors Teacher Cadet course. For students who know they want to enter the education profession this field experience will enhance their experience and understanding of classroom instruction and the challenges facing education today. The field experience will include a minimum of 55 hours each semester of field contact time working with a mentor teacher plus 10 hours of seminar time at the home high school. Field experience placement will consist of two sites, a different site each semester, to provide a variety of experiences. These will be documented in a culminating portfolio.

Grade: 11-12

No. of Credits: 2

Notes: W*

Interpersonal Relationships

Course Number: 17016

Length: Semester, S1 Only

Type of Credit: Elective

Prerequisite: NONE

Description: The purpose of the course is to acquire academic knowledge and understanding for healthy, respectful, and caring relationships across the life span. Emphasis is placed on family and friendly dynamics, effective communication, and healthy interpersonal relationships.

Grade: 10-12

No. of Credits: 1

Teen Choices

Course Number: 17011

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: NONE

Grade: 10-12

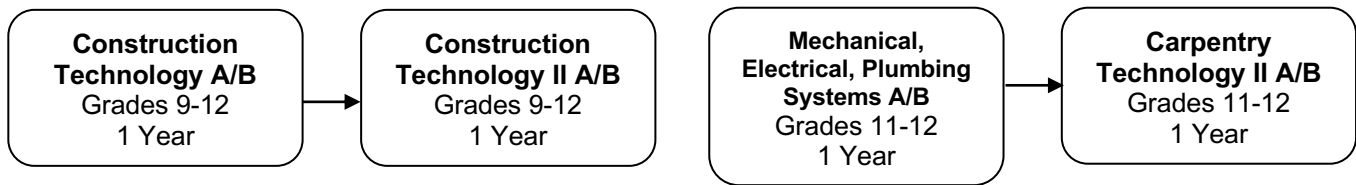
No. of Credits: 1

Key: W*/W**=Weighted Credit; IC=Industry Certification Available; GC/P=Meets Graduation Competencies with Portfolio

Description: In this course, you will learn how to make healthy decisions throughout your teen years. You will learn skills and practices required by individuals to develop, manage, and strengthen social, psychological, and physical wellness, interpersonal relationships, safe sexual decision-making, anti-substance use practices, and understanding teens and the law.

General Construction

GENERAL CONSTRUCTION COURSE OVERVIEW



COURSE DESCRIPTIONS

Construction Technology A

Course Number: 27023

Length: Semester (2 blocks)

Type of Credit: Elective (1) CTE Math (1) per semester

Prerequisite: NONE

Description: This is the foundation course to basic residential construction. Students will demonstrate competencies that are nationally recognized by the construction industry. Students will learn and practice structural framing of floors, walls, ceilings, and roofs. This course also includes the use of basic construction tools and machinery, applied math, and an introduction to blueprint reading. This course teaches students industry safety including the use of all machines and tools.

Grade: 9-12

No. of Credits: 2 (each semester)

Location: MiLL (transportation provided)

Construction Technology B

Course Number: 27024

Length: Semester (2 blocks)

Type of Credit: Elective (1) CTE Math (1) per semester

Prerequisite: Construction Technology A

Description: This is the foundation course to basic residential construction. Students will demonstrate competencies that are nationally recognized by the construction industry. Students will learn and practice structural framing of floors, walls, ceilings, and roofs. This course also includes the use of basic construction tools and machinery, applied math, and an introduction to blueprint reading. This course teaches students industry safety including the use of all machines and tools.

Grade: 9-12

No. of Credits: 2 (each semester)

Location: MiLL (transportation provided)

Construction Technology IIA

Course Number: 27020

Length: Semester (2 blocks)

Type of Credit: Elective (1) CTE Math (1) per semester

Prerequisite: Construction Technology A/B

Description: Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians or supervisors, or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

Grade: 9-12

No. of Credits: 2 (each semester)

Location: MiLL (transportation provided)

Construction Technology IIB

Course Number: 27032

Length: Semester (2 blocks)

Type of Credit: Elective (1) CTE Math (1) per semester

Prerequisite: Construction Technology A/B

Description: Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians or supervisors, or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

Grade: 9-12

No. of Credits: 2 (each semester)

Location: MiLL (transportation provided)

Mechanical, Electrical, & Plumbing Systems A

Key: **W*/W****=Weighted Credit; **IC**=Industry Certification Available; **GC/P**=Meets Graduation Competencies with Portfolio

Course Number: 27026

Length: Semester (2 blocks)

Type of Credit: Physical Science (1) CTE Math (1) per semester

Prerequisite: Construction Technology A/B

Description: Mechanical, Electrical, and Plumbing Systems prepares students for electrical, plumbing, and HVAC careers by introducing students to the physical principles of these systems and the fundamental skills needed to work with them. Upon completion of this course, proficient students will be able to follow safety procedures and use tools to perform basic operations with electrical circuits, as well as demonstrate understanding in fundamental concepts of electricity theory (i.e. Ohm's Law). Students will be able to apply proper tools and procedures to perform basic operations with plastic piping, including measuring, cutting, and joining pipe. Furthermore, students will be able to apply mathematics concepts to solve HVAC, electrical, and plumbing problems. This course is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

Grade: 10-12

No. of Credits: 2 (each semester)

Location: MiLL (transportation provided)

Mechanical, Electrical, & Plumbing Systems B

Course Number: 27027

Length: Semester (2 blocks)

Type of Credit: Physical Science (1) CTE Math (1) per semester

Prerequisite: Construction Technology A/B

Description: Mechanical, Electrical, and Plumbing Systems prepares students for electrical, plumbing, and HVAC careers by introducing students to the physical principles of these systems and the fundamental skills needed to work with them. Upon completion of this course, proficient students will be able to follow safety procedures and use tools to perform basic operations with electrical circuits, as well as demonstrate understanding in fundamental concepts of electricity theory (i.e. Ohm's Law). Students will be able to apply proper tools and procedures to perform basic operations with plastic piping, including measuring, cutting, and joining pipe. Furthermore, students will be able to apply mathematics concepts to solve HVAC, electrical, and plumbing problems. This course is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

Grade: 10-12

No. of Credits: 2 (each semester)

Location: MiLL (transportation provided)

Carpentry Technology IIA

Course Number: 27028

Length: Year (2 semesters)

Type of Credit: Physical Science (1) CTE Math (1) per semester

Prerequisite: Mechanical, Electrical & Plumbing A/B

Description: In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians or supervisors, or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

Grade: 11-12

No. of Credits: 4 (2 each semester)

Location: MiLL (transportation provided)

Construction Technology IIB

Course Number: 27029

Length: Year (2 semesters)

Type of Credit: Elective (2 per semester)

Prerequisite: Carpentry Technology A/B

Description: In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians or supervisors, or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

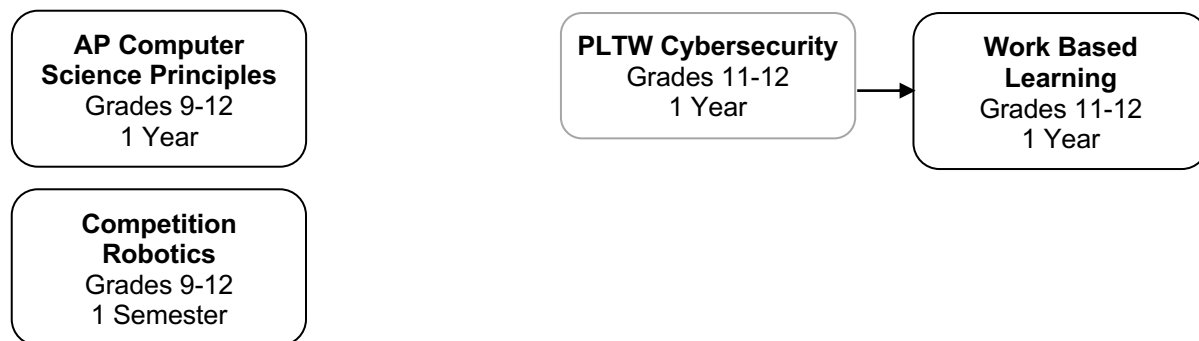
Grade: 11-12

No. of Credits: 4 (2 each semester)

Location: MiLL (transportation provided)

Computer & Digital Technologies

COMPUTER & DIGITAL TECHNOLOGIES



COMPUTER & DIGITAL TECHNOLOGIES COURSE DESCRIPTIONS

AP Computer Science Principles

Course Number: **TBD**

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: This course is awaiting official approval. Please see your guidance counselor to register.

Grade: 9-12

No. of Credits: 1

Notes: **W****

Computer Hardware

Course Number: 16176

Length: Semester

Type of Credit: Elective

Prerequisite: NONE

Description: With an emphasis on hands on application, students will build their skills and understanding with basic hardware and software computer components. Students will build, test and diagnose computer hardware while learning several different operating systems such as Windows and Linux. Students will learn terminology of hardware and software components as they build computers, networks, servers and create secured environments. In addition, students will learn about storage devices, mobile computing, security threats and best security practices. At the completion of this course, students should be able to pass the A+ Certification.

Grade: 9-12

No. of Credits: 1

Competition Robotics

Course Number: 6291

Length: Semester

Type of Credit: Elective

Prerequisite: None

Description: Focuses on the process of building an autonomous robot from the initial design to final evaluation. Includes design and building of the mechanical structure, electrical system as well as programming and integration of all systems to produce a fully functional autonomous robot capable of performing a series of proscribed tasks. Students will also have the opportunity to compete in both district and state robotics competitions.

Grade: 9-12

No. of Credits: 1

PLTW Cybersecurity

Course Number: 29010 A/B

Length: Semester

Type of Credit: Elective

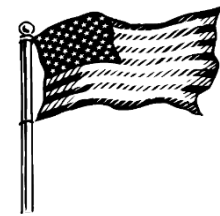
Prerequisite: None

Grade: 9-12

No. of Credits: 1

Description: Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

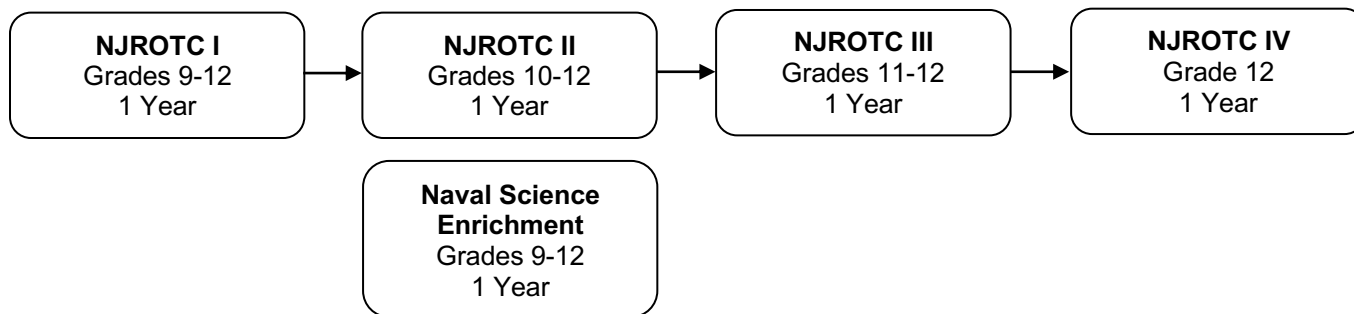
Naval Junior Reserve Officer Training Corps



NJROTC PROGRAM OVERVIEW

NJROTC is an interesting and rewarding way to earn elective credit. Practical leadership and personal development opportunities accompany academic work. There is no obligation incurred, either to continue the program at Mesa Ridge High or to be involved in the military in any way after graduation. Opportunities for school and community service, field trips, early leadership positions, personal recognition, and numerous extra-curricular activities are all available. A uniform is provided to each student without cost and is worn once a week. All JROTC courses require attendance and participation in ceremonies, events, and activities each semester outside the instructional day, including some evenings and weekends. Completion of the course may make students eligible for advance rank and pay grade should they choose to enter any military service. Emphasis is given to students interested in fully paid college scholarships or service academy appointments.

NJROTC COURSE OVERVIEW



NJROTC COURSE DESCRIPTIONS

NJROTC I(Naval Science I)

Course Number: 21005A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: NONE

Grade: 9-12

No. of Credits: 2

Description: Naval Science I is a beginning program in Naval Junior ROTC containing academic, service education, and military instruction. The academic portion includes basic naval orientation, 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, local military bases and "high tech" businesses 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 are the focus of this program.

NJROTC II (Naval Science II)

Course Number: 21010 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: NJROTC I

Grade: 10-12

No. of Credits: 2

Description: This co-ed course is an expansion of Naval Science I and includes maritime history, maritime geography, oceanography, meteorology, astronomy, and physical science. Community service (service education), unit participation, and field trips are required. Field trips 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 is the focus of this program.

NROTC III (Naval Science III)

Course Number: 21015 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: NJROTC II

Description: This course involves instruction in leadership and draws upon the skills mastered in Naval Science I and II. Naval knowledge and skills in a variety of areas, including national security, military law, basic seamanship, navigation, and naval weapons, 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 is the focus of the program.

Grade: 11-12

No. of Credits: 2

NJROTC IV (Naval Science IV)

Course Number: 21020 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: NJROTC III

Description: 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.

Grade: 12

No. of Credits: 2

Naval Science Enrichment

Course Number: 21025 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: NJROTC 1 (1 semester) and concurrent enrollment in NJROTC I, II, or III. Naval Science instructor approval.

Description: 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. Military standards of grooming and appearance will be required of the student. Students will participate in school and community service activities. Students will participate in fund raising activities to acquire special uniform items and to defray the cost of field events.

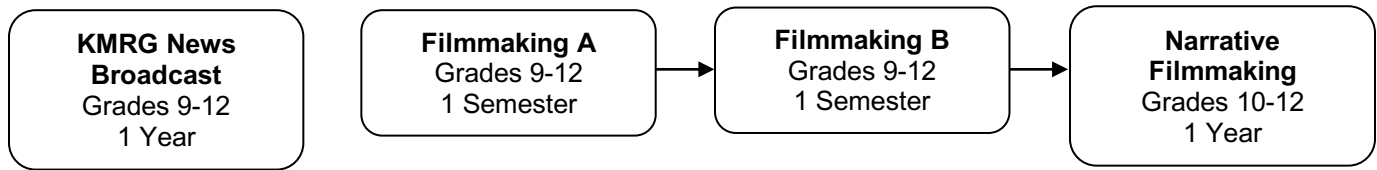
*(May be entered second semester by freshman Naval Science I students with Naval Science instructor approval)

Grade: 9-12

No. of Credits: 2

Audio-Video Production

AUDIO-VIDEO PRODUCTION COURSE OVERVIEW



AUDIO-VIDEO PRODUCTION COURSE DESCRIPTIONS

Filmmaking A (formerly Video Production)

Course Number: 26050

Length: Semester, S1 Only

Type of Credit: Elective

Prerequisite: NONE

Description: Students learn how to use digital video editing software to create, edit, and save movies. Students create movies using digital video clips, digital photos and music. The basics of shooting good video, capturing video from a camera to a computer, creating movies for the web, and creating a finished product will be covered.

Grade: 9-12

No. of Credits: 1

Notes: course may only be repeated for a

Filmmaking B

Course Number: 26051

Length: Semester, S2 Only

Type of Credit: Elective

Prerequisite: NONE

Description: Students learn how to use digital video editing software to create, edit, and save movies. Students create movies using digital video clips, digital photos and music. The basics of shooting good video, capturing video from a camera to a computer, creating movies for the web, and creating a finished product will be covered.

Grade: 9-12

No. of Credits: 1

Notes: course may only be repeated for a

Narrative Filmmaking

Course Number: 26048 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: NONE

Description: In this master course, high-achieving students will incorporate film-making skills to complete Narrative (aka Fiction) screen stories. Sections of the course will be devoted to Film Analysis of professional/classical movies. Students will write short to full-length screenplays turning them into produced movies or web-series. At the conclusion of this course, students will have a portfolio of completed movies that will gain acceptance at film-making schools. This course is designed for that student interested in producing movies in the TV or Film Industry.

Grade: 10-12

No. of Credits: 2

Notes: course may only be repeated for a

News Broadcast (formerly KMRG News)

Course Number: 26049 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Instructor approval determined by application and interview; course may be repeated for credit AND Signed agreement to compensate for lost and stolen equipment.

Description: KMRG News is a course designed to simulate a multimedia news team. The students produce live-announcement broadcasts each day and prepare news stories, commercials, Public Service Announcements (PSAs), sports, and other highlighted events for scheduled taped newscasts. Regular "feature" projects are produced as coordinated by the instructor. Students must understand that these events sometimes involve time after school and on weekends, and in fairness, all students should participate!

Grade: 9-12

No. of Credits: 2

Notes:

Work Based Learning

COURSE DESCRIPTIONS

The Work Based Learning (WBL) program 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, the WBL program, 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.

Work Based Learning

Course Number: 16117 A/B

Length: Semester

Type of Credit: Elective

Grade: 11-12

No. of Credits: 1

Prerequisite: Students must be concurrently enrolled in a Career and Technical Education (CTE) course(s) in the areas such as Business Marketing, Consumer & Family Studies, Auto Technology, CAD, Electronics, Construction Technology, Drama, KMRG, or Alternative Cooperative Education (ACE). Student must show proof of current employment or internship paperwork before starting this course.

Description: Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. A portion of their school day may be spent working with an employer to gain valuable work experience prior to graduation. Students are granted release time from school to be placed in part-time jobs in companies where they utilize their skills and knowledge by working as an actual employee. The WBL coordinator will contact the company regularly to evaluate the student's work performance. The student receives a grade and up to two credit hours per semester toward graduation for successful work performance.

Project Lead the Way

What is “Project Lead the Way (PLTW)”?



PLTW is a national program that has formed partnerships among public schools, institutions of higher education, and industry to increase the quantity and quality of students graduating from engineering and engineering technology institutions. The challenge to high schools and colleges today is to graduate students who are competent in the skills needed in today’s technological climate – math, science and technology, problem solving, communication and teamwork that promote broad-based solutions to the problems and challenges of society. PLTW has developed a four-year set of courses that introduces students to the rigor and discipline of engineering and engineering technology prior to their entering college. PLTW also provides ongoing instructor training and curriculum development to keep them current. PLTW helps facilitate acquisition of state-of-the-art hardware and the latest software for training.

****Please note that all PLTW courses offered are honors courses and weighted on the 4.5 scale.****

BIOMEDICAL SCIENCES PATHWAY

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.

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 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.

ENGINEERING PATHWAY

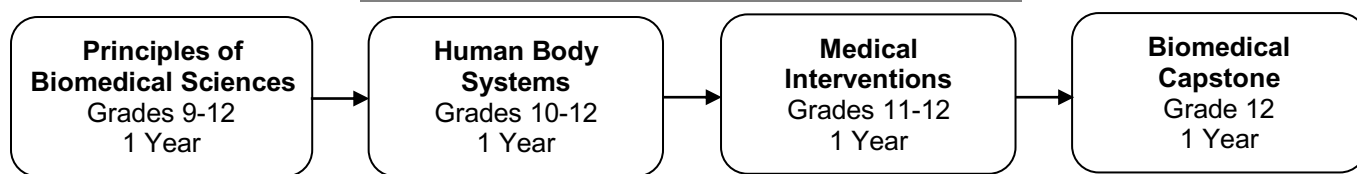
PLTW has developed a four-year set of courses that introduces students to the rigor and discipline of engineering and engineering technology prior to their entering college. PLTW also provides ongoing instructor training and curriculum development to keep them current. PLTW helps facilitate acquisition of state-of-the-art hardware and the latest software for training.

How does Project Lead the Way of courses fit into a student’s schedule?

Students are expected to complete a college preparatory sequence of core Mathematics and Science in addition to courses in PLTW.

- All courses are open to upper classmen but 9th and 10th grade students have priority in scheduling
- All courses are yearlong

PLTW-BIOMEDICAL SCIENCES COURSE OVERVIEW



PLTW-BIOMEDICAL SCIENCES COURSE OVERVIEW

PLTW - Principles of Biomedical Sciences I (PBS)

Course Number: 30001 A/B

Length: Year (2 semesters)

Type of Credit: Elective, or Life Science

Prerequisite: NONE

Description: Students investigate various health conditions including heart disease, diabetes, sick-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 introduce 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 for 9th – 12th grades. This is the foundation course for a series of four biomedical science classes in the pathway. *(This course is the honors course for biology)*

Grade: 9-12

No. of Credits: 2

Notes: W*

PLTW - Human Body Systems (HBS)

Course Number: 300021 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: PBS or Teacher Recommendation

Description: 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 in action students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

Grade: 10-12

No. of Credits: 2

Notes: W*

PLTW - Medical Interventions (MI)

Course Number: 30003 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: HBS or Teacher Recommendation

Description: 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 Diagnostic.

Grade: 11-12

No. of Credits: 2

Notes: W*

PLTW - Capstone Course—Biomedical Innovation (BI)

Course Number: 30004 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: MI or Teacher Recommendation

Description: Successful completion of at least two of the pathway courses and/or teacher recommendation
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 project with a mentor or advisor from a university, medical facility, or research institution based on future career and/or post-secondary interest

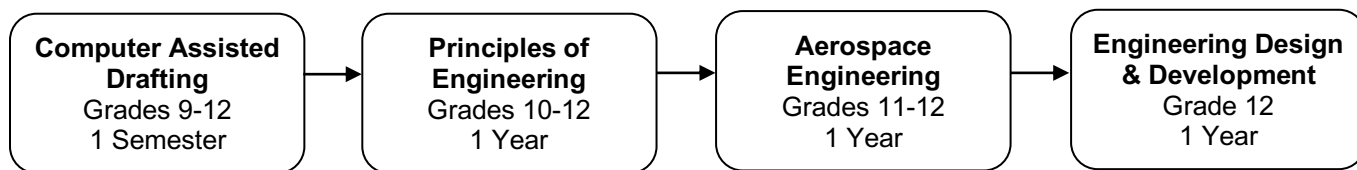
Grade: 11-12

No. of Credits: 2

Notes: W*

Key: W*/W**=Weighted Credit; IC=Industry Certification Available; GC/P=Meets Graduation Competencies with Portfolio

PLTW-ENGINEERING COURSE OVERVIEW



PLTW-ENGINEERING COURSE DESCRIPTIONS

Computer Assisted Drafting (CAD)

Course Number: 27070 A/B

Length: Semester

Type of Credit: Elective

Prerequisite: None

Description: This course gives students the opportunity to learn mechanical and architectural drawing using AutoCAD while gaining the knowledge of drafting room procedures, tools and equipment. The students will develop CAD skills used to draw working drawings, floor plans, 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, and structural design and computer graphics. This class is articulated with Pikes Peak Community College for college credit. Beginning with the 2020/2021 school year, CAD I will be a math credit for the classes of 2022 and beyond.

Grade: 9-12

No. of Credits: 1

Notes: CAD is not a PLTW/honors course

PLTW - Principles of Engineering (POE)

Course Number: 29002 A/B

Length: Year (2 semesters)

Type of Credit: Elective or Physical Science

Prerequisite: None

Description: 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 post-secondary 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?”

Grade: 9-12

No. of Credits: 2

Notes: W*

PLTW - Aerospace Engineering (AE)

Course Number: 29003 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: PLTW Principals of Engineering (POE) or teacher recommendation

Description: This course propels students’ learning in the fundamentals of atmospheric and space flight. As students 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.

Grade: 10-12

No. of Credits: 2

Notes: W*

PLTW – Engineering Design and Development (Capstone)

Course Number: 29014 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: PLTW - Principles of Engineering and PLTW - Aerospace Engineering (AE) or PLTW - Computer Integrated Manufacturing (CIM) and teacher recommendation

Grade: 11-12

No. of Credits: 2

Notes: W*

Description: 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. 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.

PLTW - Computer Integrated Manufacturing (CIM)

Course Number: 29004

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Principles of Engineering

Description: Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.

Grade: 10-12

No. of Credits: 2

Notes: W*

NOTE - All PLTW courses are subject to be offered based on implementation stages and building/district needs. Honors/AP Signature Page required for all PLTW courses.

Non-Pathway Electives

Elementary Assistant

Course Number: 26025

Length: Semester

Type of Credit: Elective

Prerequisite: 2.0 overall grade point average, no more than 5 absences during the previous semester, and program coordinator's approval

Description: This course gives the student a chance to assist an elementary or junior high school teacher. The student will learn to follow directions, work cooperatively with others, and perform tasks without direct supervision. An elementary assistant may be expected to perform such tasks as grading papers, assisting students individually, or working with small groups of students. A student will be allowed three absences; additional absences must be made up.

Grade: 11-12

No. of Credits: 1

Notes:

Electronics Technology

Course Number: 27065

Length: Year (2 Semesters)

Type of Credit: Elective

Prerequisite: None

Description: This course covers the fundamentals of electronics, from atomic theory through microprocessor (computers) systems. The emphasis in this course is a "hands on" approach in which the student will construct circuits and analyze basic electronic theory, electronic circuitry application and electronic repair techniques. Digital circuitry and microprocessor technology complete the course of study. This course is taught at Mesa Ridge High School. Students will construct a number of electronic projects to complete their laboratory requirements.

Grade: 10-12

No. of Credits: 2

Notes:

Media Technology / Library Science I

Course Number: 26020

Length: Semester

Type of Credit: Elective

Prerequisite: None

Description: This course will teach students overall work skills in reference to filing, organization, time management and prioritizing tasks. Students will learn to work with multiple programs (such as Microsoft office and Google Apps) to help with accuracy and efficiency in maintaining records of items received, stored, issued, and returned, and cataloged according to system used. The student will learn to work with patrons on using reference sources, card catalogs, automated information systems and equipment used in the library-learning center.

Grade: 9-12

No. of Credits: 1

Notes:

Media Technology / Library Science II

Course Number: 26022 A/B

Length: Semester

Type of Credit: Elective

Prerequisite: Media Technology and Library Science

Description: This course will continue to teach students overall work skills in reference to filing, organization, time management and prioritizing tasks. Students will utilize programs (MS Office, Google Apps and automated information systems) on a more consistent basis and assist patrons and staff with questions and concerns. Students will learn advanced procedures about maintaining records of items received, stored, issued, returned, and cataloged according to the system used. The student will continue to work with patrons on using reference sources, catalogs, automated information systems and various equipment used in the library-learning center. Students will research career options in the field and visit local organizations such as university or county libraries.

Grade: 9-12

No. of Credits: 1

Notes:

Peer Tutor

Course Number: 20016 A/B

Length: Semester

Type of Credit: Elective

Prerequisite: None

Grade: 10-12

No. of Credits: 1

Notes:

Description: This program provides academic interventions to help students who are struggling with a particular class or classes. Trained student tutors are available very block of the day to assist students with academics, study skills, test taking tips, organization. This program may be accessed by students, parents, or teachers through the Counseling Center.

Student Assistant

Course Number: 26015

Length: Semester

Type of Credit: Elective

Prerequisite: A 2.0 overall grade point average and no more than 5 absences during the previous semester, teacher and administrator approval. (Students are limited to 3 credits as an assistant.)

Description: Student assistants will be used in the following areas: Attendance Office, Main Office, Counseling Center, Nurse's Office, department offices, and by teachers. Only one assistantship can be scheduled per semester per student and cannot be scheduled concurrently with a study hall. Students must apply and be accepted to serve in this capacity. A maximum of three credits can be accumulated toward graduation.

Grade: 10-12

No. of Credits: 1

Notes: Pass/Fail Grading

Student Cabinet

Course Number: 26010 A/B

Length: Year (2 semesters)

Type of Credit: Elective

Prerequisite: Must be elected by student body

Description: 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 democratic government.

REQUIREMENTS TO RUN FOR STUDENT CABINET/GOVERNMENT

- A. All candidates must have an overall G.P.A. of 2.5 (Counselor signature required).
- B. All candidates may not have missed more than ten days of school, unless excused by a physician. (Attendance office signature required.)
- C. Students elected to Student Cabinet must enroll in the Student Cabinet class and must also enroll in 6 classes each semester.
- D. Candidates running for a class office must be a member of that class the following year. (i.e. Senior Class President will be a senior next year, Junior Class Treasurer will be a Junior next year).
- E. All candidates for office must obtain a minimum of 75 signatures from their class. Candidates running for Student Cabinet may have signatures from both sophomores and juniors. Signatures from seniors are not allowed and will disqualify a candidate.
- F. All candidates must have one of the administrators at Mesa Ridge High School sign his/her petition.
- G. All candidates are subject to a staff evaluation for final approval to run for any and all offices. Students will be notified of selection by letter.

Grade: 9-12

No. of Credits: 2

Notes:

Study Hall

Course Number: 26005

Length: Semester

Type of Credit: Elective

Prerequisite: None

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

Grade: 9-12

No. of Credits: 0

Notes:

Yearbook

Course Number: 26055

Length: Semester

Type of Credit: Elective

Prerequisite: Teacher Recommendation, must apply.

Description: This course offers practical experience in the production of MRHS school yearbook.

Grade: 10-12

No. of Credits: 1

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