

# Liberty High School Course Guide for 2025-26



## Liberty High School

Home of the Lancers

8720 Scarborough Drive  
Colorado Springs, CO 80920

719-234-2200

<https://liberty.asd20.org>

## Academy School District 20

1110 Chapel Hills Drive  
Colorado Springs, CO 80920

719-234-1200

[www.asd20.org](http://www.asd20.org)

## Administration

Mr. Matthew Sisson  
Principal

Ms. LiAnne Thiessen  
Assistant Principal/Activities Director

Mr. Jim McCoin  
Athletic Director

Ms. Kelly Hoyle  
Assistant Principal

Mr. Timothy Hill  
Assistant Principal

Mrs. Heather Conyers  
Dean of Students

Dr. Kaitlyn Epperson  
Dean of Students

## Counseling

Mrs. Kristin Bendig  
Counselor

Ms. Kristin Jaramillo  
Counselor

Mrs. Rosalie Kroeker  
Counselor

Mrs. Samantha Derosier  
Counselor

Mrs. Jacqueline Blueitt  
Counselor

Mrs. Judith Gaughan  
Talented & Gifted Coordinator

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**Disclaimer:** All efforts have been made to ensure the accuracy of information contained in this document. In the case of an error, all applicable school and district policies will supersede the aforementioned information. Courses listed in this guide will be offered dependent upon enrollment and staffing.

## Registration Procedures

All new students to District 20 register with the district at [www.asd20.org](http://www.asd20.org) or at Central Registry at the Education and Administration Center (EAC) located at 1110 Chapel Hills Drive. After registration at Central Registry, an appointment should be made with a counselor at Liberty High School. If registering during the summer, students may access the course guide online at [liberty.asd20.org](http://liberty.asd20.org) and email the counselor their course selections.

## Contact Information

Liberty Main Office	719-234-2200
District 20 Education & Administration Center (EAC)	719-234-1200
District Central Registration	719-234-1224
District Transportation	719-234-1410

Counselor	Kristin Bendig	<a href="mailto:kristin.bendig@asd20.org">kristin.bendig@asd20.org</a>	719-234-2231
Counselor	Kristin Jaramillo	<a href="mailto:kristin.jaramillo@asd20.org">kristin.jaramillo@asd20.org</a>	719-234-2243
Counselor	Rosalie Kroeker	<a href="mailto:rosalie.kroeker@asd20.org">rosalie.kroeker@asd20.org</a>	719-234-2234
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Counseling Assistant	Jodie Heo	<a href="mailto:jodie.heo@asd20.org">jodie.heo@asd20.org</a>	719-234-2248
Counseling Assistant	Lindsey Courtright	<a href="mailto:lindsey.courtright@asd20.org">lindsey.courtright@asd20.org</a>	719-234-2240
Registrar	Courtney Lupo	<a href="mailto:courtney.lupo@asd20.org">courtney.lupo@asd20.org</a>	719-234-2204

## Course Guide Symbols

**Weighted GPA – Denoted by “\*”**

**Repeat for Credit – Denoted by “R”**

Liberty High School courses may NOT be repeated for credit unless that are denoted by an “R”.

**Higher Education Admissions Recommendations (HEAR) – Denoted by “H”**

Liberty High School courses that meet HEAR recommendations are denoted by an “H”.

Courses that meet HEAR recommendations as an **academic elective** will be signified by “H ►”.

More information can be found at [www.state.co.us/cche\\_dir/hecche.html](http://www.state.co.us/cche_dir/hecche.html) or [www.collegeincolorado.org](http://www.collegeincolorado.org).

**Collegiate Athletics/NCAA – Denoted by “N”**

Liberty High School core courses that are NCAA approved are denoted by an “N”.

## General Registration Information

Students are expected to maximize the opportunity to take an academically rigorous schedule.

- All students are expected to sign up for eight classes per semester. Students may request a free period called an attendance waiver. Approval forms must be signed by parents/guardians and returned to the grade level counselor. Students with attendance waivers are not permitted to be on campus during that time.
- Students with an IEP will register with their case manager.
- A student must be registered for a minimum of six classes per semester to be considered a full-time student.
- To be eligible for athletics, a student must be passing at least five credits in the current semester AND previous semester.
- Students registering for year-long classes are expected to finish the class as registered. Changes at semester are only permitted based on academic misplacement with administrative approval.
- To be a Teacher/Student/Library Assistant (TA, SA, LA), a student must get the appropriate paperwork and approval. This is for juniors and seniors only.
- Current students who want to take a course outside of Academy School District 20 and transfer the credit back to LHS with the intention of graduating from LHS must obtain prior written administrative approval.
- Students graduating from Liberty High School are expected to be enrolled at Liberty for at least 1 full semester prior to graduating. Written administrative approval is required for exceptions.
- To graduate early, an application must be obtained from the grade level counselor and submitted to the grade level administrator prior to the end of junior year.
- Home school materials/portfolios must be verified with the principal for any credit to be accepted.
- Additionally, home school students who want to take a course at Liberty High School must have administrative approval. Students will only be able to take up to two courses per semester; these courses only include elective options.
- Students who fail classes and fall behind on credits are strongly encouraged to make up these credits during the following summer (at the own expense) to graduate on time with their class.
- Please note that the published fees in the course guide are based on the current year's Board-approved fee schedule. Fees are subject to change based on the May BOE meeting.
- A class fee will be assessed per grade level to cover a portion of the cost of grade level events and activities.

Grade Level	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Fee	\$10	\$15	\$20	\$25

## Graduation Requirements

The Board of Education believes that all students who graduate from District 20 schools should have a solid foundation in the core areas of English, Mathematics, Science, Social Science, and World Languages, along with a comprehensive background in the Fine Arts and Physical Education. To be prepared for post-graduate careers or higher education, students should select courses which are related to their plans and are academically demanding. The coursework outlined in this policy is the minimum required for earning a diploma; **students should strive to challenge themselves by exceeding the requirements whenever possible in accordance with their post-graduation goals.**

Graduation requirements are based on the units of credit earned in grades 9 through 12. A unit of credit is defined as the amount of credit given for the successful completion of a course.

Semester Courses = 1.0 or one credit

Year-Long Course = 2.0 or two credits

Requirements	Credits	Special Notes
English	8	All students must have 4 years of <b>English</b>
Mathematics	6	All students must complete <b>Algebra 1</b> and <b>Geometry</b> (either in middle school or in high school). All 6 credits must be earned during grades 9-12.
Science	6	
Social Science	6	Social Science requirements include 2 credits of <b>U.S. History</b> , 1 credit of <b>Civics</b> , and 2 Credits of *World History or another course covering Holocaust and Genocide studies as required by House Bill 20-1336. <b>World History requirement begins with the Class of 2028.</b>
World Language	2	
Core Elective	6	Core elective requirements include any credits earned beyond the requirements listed in the subjects above.
Fine Arts	1	Arts requirements include visual and performing arts.
Physical Education	3	
Health	1	All students are required to have one credit of <b>Health</b> .
Unrestricted Electives	11	Credits earned beyond the requirements listed above will count as unrestricted elective credit.

**Students must also demonstrate proficiency in both Math and English to meet graduation requirements for the Colorado Department of Education.**

For more information on specific proficiency levels, please visit  
<https://www.cde.state.co.us/postsecondary/graduationguidelines>

# Grading Systems & Credit Procedures

## Weighted Grades and GPA Calculation

By School Board policy (IKAA-R), courses which are weighted will have a consistently verifiable, elevated, and more rigorous curricula as compared to the unweighted equivalent courses. Advanced Placement and International Baccalaureate Diploma Programme courses automatically qualify for weighted status. Other courses that meet the definition may also have weighted status. Students who successfully pass a class that has been weighted will receive one (1) extra grade point per credit for that course. This will then be calculated with all other course grades.

### Marking System

				<b>Grade Point Values</b>				
				Letter Grade	Grade Points	Honors/AP Grade Points		
A+	96.5	C+	76.5	P	Passing	A		
A	93.5	C	73.5	NC	No Credit	B	4.0	5.0
A-	89.5	C-	69.5	I	Incomplete	C	3.0	4.0
							2.0	3.0
B+	86.5	D+	66.5	WF	Withdraw	D	1.0	2.0
B	83.5	D	63.5		Fail	F	0.0	0.0
B-	79.5	D-	59.5			WF	0.0	0.0
		F	<59.5			P	Not used in calculation	
						NC	Not used in calculation	

### Weighted grades:

For students transferring into a District 20 high school, from either within District 20 or from another district, credits will be weighted only if the transferring course meets one of the following criteria:

- The credit will be weighted if the course is an authorized Advanced Placement or International Baccalaureate Diploma Programme course.
- The credit will be weighted for a course that is a District 20 weighted course.
- The credit will be weighted for a course if the specific District 20 school into which the student is transferring offers the same course or one with a similar title and description. If the school into which the student is transferring does not offer the same course as that with a weighted credit from a previous school, the credit will be unweighted.
- Two high school credit may be earned for each 3-credit college class.

### Transfer Credits:

Academy District 20 high schools use letter grades. If a student transcript reports grades in both letters and percentages, Academy District 20 high schools will use the letter grades. If a transcript has only percentage grades, District 20 high schools will transfer the grade as a letter grade based on the individual school's grading standards.

### Home school Credit:

In order to receive credit for any home school courses, students will be required to turn in a transcript from an accredited home school program. Credit **may** be awarded through a body of evidence of work completed and submitted to the principal for review/approval. All home school credit will be given as pass/fail. See counselor or registrar for application.

### Honors & Pre – AP Courses

Honors and Pre-AP classes stress academic excellence, preparation for college, and critical and independent thinking skills. Students who enroll in honors and Pre-AP classes are expected to work at a high level of competence and to responsibly accept the academically rigorous challenges set forth. Honors and Pre-AP courses exceed the minimum state standards for core content areas.

All classes which have received district approval for weighted grade status are labeled with an asterisk (\*) in the course guide.

#### How to Enroll in Honors and Pre-AP Courses (All Grades)

All students considering honors level and Pre-AP courses should carefully consider his/her level of preparation and commitment to the content area. Likewise, students should discuss all options with parents and teachers. Students must possess a passion for the subject as well as the prerequisite skills, work ethic, and attitude necessary for success at the honors or Pre-AP level. Students must make a conscious decision to commit to the academic rigor required in an honors course. Students pursuing honors and Pre-AP courses should display past and current academic performance in the above average range and have a positive recommendation from their current teacher. If there are any questions about a student's specific skill levels, the student's current teacher is the best source to assist in this important decision.

### Advanced Placement (AP) Program

The Advanced Placement (AP) Program is a national program offered by Liberty High School in cooperation with College Board. The AP Program provides students the opportunity to pursue *college-level studies* while in high school. At the end of an AP course, students take a College Board National AP Exam administered on a national test date. Depending upon scores, a student may receive college-level credit for AP classes. Acceptance of AP scores for college credit is determined by each college or university. It is the student's responsibility to research policies at individual institutions regarding AP credit. Students select colleges and universities to whom they wish to have their scores mailed at the time of the AP examination.

AP courses are intended to meet the needs of students seeking significant advancement 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. AP courses have received district approval to award weighted credit.

#### The AP Exam

Students are expected to pay an exam fee (per class; AP Physics students pay for and take two exams) of approximately \$105. This exam fee is set by College Board and is subject to annual increases which may not be reflected by the time this course guide is published. Students are expected to pay the exam fee and take the exam. If you qualify for Federal Aid programs, you may apply for assistance with the AP exam fees.

Additional information on AP courses and testing can be found at [collegeboard.org](http://collegeboard.org).



## AP Scores

Only students have the right to forward their AP scores to colleges and universities; therefore, to maintain student confidentiality and follow District 20 policy, AP test scores will not appear on LHS transcripts. Students will receive a Student Score Report from College Board in June following spring testing. Official score reports can be requested through College Board to be sent to any college of choice at [collegeboard.org](http://collegeboard.org). All this information is shared with students in the student packet they receive at the time of testing.

## Dropping an AP Course

Registration for and enrollment in an AP course is a **full-year commitment**. Requests for dropping an AP course will only be considered when it is evident that a student has been academically misplaced. A conference may be held to assess the student's individual needs and long-term graduation goals.

# College Credit at LHS

## Career Start

Students enrolled in this district-wide Career/Technical Education program can earn credits at Pikes Peak Community College while earning credits toward graduation. Each program varies in number of courses required and credits earned (for both high school and college credit), and college credit earned also depends upon the student's success in the program. Because policies regarding transfer credits vary among institutions, there is no guarantee that these credits will transfer into the student's college. Example programs include culinary, fire science, welding, and cosmetology.

This is a college concurrent enrollment program for independent juniors and seniors who are academically ready for attendance at the community college campus while they are still enrolled in high school. Grades earned in these classes will be reflected on both the high school transcript and college transcript. The application process with specific deadlines for Career Start begins immediately after winter break. Additionally, there is a parent/student information night held at the Academy District 20 central administration building each year.

## Academic Concurrent Enrollment (CE) Classes

This program is for independent students who are academically ready for college level work at the college campus while they are still enrolled in high school. Grades earned in these classes will be reflected on both the high school transcript and a college transcript. Students must have an ICAP that demonstrates the need for the college class in their four-year plan of study/post-secondary goals, meet minimum test score and/or placement test score requirements, and more. Because policies regarding transfer credits vary among institutions, there is no guarantee that these credits will transfer into the student's college.

## CU Succeed Platinum Classes

This partnership between District 20 and participating universities allows D20 students to enroll in specific classes each semester (offerings vary). The classes are offered outside of the school day at various D20 locations and are worth 3 UCCS credits.

Classes are for mature and responsible students ready for the rigor of a college class while in high school. Interested students should see their grade level counselor to start the application process. Again, because policies regarding transfer credits vary among institutions, there is no guarantee that these credits will transfer into the student's college.

### Individual Career & Academic Plan (ICAP) & Naviance

Individual Career & Academic Planning (ICAP) assists students with post-secondary planning to assure that all students are prepared to make informed decisions about their futures.

ICAP is essentially an electronic portfolio that allows students to explore their career interests and post-secondary options. District 20 high schools have adopted the Naviance internet-based college and career program for ICAP implementation. Liberty High School uses Naviance to help students with annual goal setting, post-secondary planning, and researching colleges and careers.

Here are some of the helpful features found in Naviance:

- ICAP: Counselors will get you started on this process during ICAP presentations. Students are encouraged to explore post-secondary options on their own.
- College research in the “colleges” tab: Sign up for college visits at LHS, complete college searches, save prospective colleges, and more. There is also a scholarship list in this section.
- Career research in the “careers” tab: Career interest profiler, career cluster finder, and researching different careers and majors. In many cases, you can look up colleges that offer specific programs.
- Goal setting in the “my planner” tab: You can complete a “game plan” to get you thinking about your goals after high school. This section also contains a user-friendly resume builder. Create to-do lists and see any tasks assigned by counselors in the “my planner” tab.

Liberty HS students participate in the ICAP program through classroom guidance with our counselors. While we devote some school time to using the Naviance program, students are encouraged to discuss what they have learned with their parents and to visit the website together at home. Naviance accounts may be accessed online and are available to the student 24/7 from the link on the LHS website. As with all learning, your dialogue with your student will make this experience even more meaningful.

### Higher Education Admissions Recommendations (HEAR)

Meeting the Higher Education Admission Recommendations does not guarantee admission to a four-year public institution. Colleges and universities may have additional requirements (especially for additional world language credits). Please visit individual college websites or contact the schools for all the specifics.

Students planning to attend a four-year college or university in will need to complete the following classes to fulfill the Higher Education Admissions Recommendations. Additionally, they will need to find out from the colleges, to which they are applying, what GPA and ACT or SAT scores they require and if there are other courses outside of the Higher Education Admissions Recommendations that must also be completed for admission.

For additional information about the Higher Education Admissions Recommendations, please visit [Higher Education Admission Recommendations | Higher Education \(colorado.gov\)](#)

Enacted in 2005, HB 05-1057 requires districts to provide parents a list of courses the district has available that satisfy the CCHE’s Higher Education Admission Guidelines. For a list of the Academy District 20 courses that meet those criteria, please visit the [D20 HEAR page](#).

## CTE -Career & Technical Education Department

Business, Marketing, Information Technology, Industrial Arts (Woods, Construction, Automotive) and Health Sciences (CNA & EMT) Technology

### Business, Marketing, and Information Technology Courses

Please see course descriptions for prerequisite courses

9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>	11 – 12 <sup>th</sup>	12 <sup>th</sup>
	<b>Accounting 1</b> Course: 112900 A&B	<b>Accounting 2</b> Course: 031005 A&B	
<b>Business &amp; Marketing 1</b> Course: 030050 A&B	<b>Business &amp; Marketing 2</b> Course: 030055 A&B	<b>Business &amp; Marketing 3</b> Course: 030060 A&B	<b>Business &amp; Marketing 4</b> Course: 030065 A&B
<b>Computer Applications 1</b> Course: 161000			
<b>Computer Applications 2</b> Course: 161005			
<b>Programming 1</b> Course: 163015			
<b>Programming 2</b> Course: 163020		<b>Personal Finance</b> Course: 153015	

DECA (An Association of Marketing Students) and FBLA (Future Business Leaders of America) are international co-curricular organizations that are integral in all business and marketing classes. Students have opportunities to compete in a variety of business and marketing related topics, participate in community service and fundraising events, and have opportunities to attend district, state, and national, and international conferences as well as other membership activities. **Membership Fees:** \$70 DECA; \$70 FBLA.

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**Accounting 1 H**

**Grade:** 10 - 12

**Prerequisite:** Algebra 1

**Fee:** \$25.00 \$70.00 FBLA membership is encouraged

**Description:** Whether college-bound or going directly into the business world, this course is for anyone interested in learning the "language of business." Students will perform manual as well as computerized accounting activities. Topics may include transaction analysis, worksheet and financial statement preparation, accounting for sole proprietorships, partnerships and corporations, special journals, and payroll systems. Periodic job simulation projects will provide realistic job experiences. **Comments:** Accounting is the backbone of successful business practices and is highly encouraged for students who may be considering a degree in business or marketing. This class is articulated through Pikes Peak State College.

**Course:** 112900 A & B

**Length:** 1 year

**Credits:** 2, Math

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**Accounting 2 H ►****Grade:** 11 - 12**Prerequisite:** Accounting 1**Fee:** \$25, \$70 FBLA membership is encouraged

**Description:** This course is a continuation of Accounting 1 for college-bound or career-oriented students. Students will use computerized accounting programs while learning advanced accounting concepts including accounting for partnerships and corporations, divisions and systems within a company, accounting for non-profit organizations, uncollectible accounts, depreciation, and financial analysis and interpretation.

**Comments:** Students will have the ability to obtain the following Intuit certifications; Bookkeeping Certified Professional, QuickBooks Online, and Design for Delight Innovator.

**Course:** 031005 A & B**Length:** 1 year**Credits:** 2, Math

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**Business & Marketing 1 H ►****Grade:** 9 - 12**Fee:** \$70 for DECA membership required

Additional DECA fees based on level of student participation

\$70 FBLA membership encouraged

**Description:** In this foundational course, students will be introduced to business concepts, theories, vocabulary, and systems. The course will utilize project-based learning, real-world simulations, and a dynamic classroom approach in which students actively explore global business problems, strategies, and challenges. Students will learn introductory concepts in economics, business law, ethics and corporate social responsibility, marketing and promotion, professionalism, business and marketing principles, and business writing. Students will develop key competencies in the areas of critical thinking, communication, collaboration, creativity, innovation, problem-solving, and design thinking.

**Course:** 030050 A & B**Length:** 1 year**Credits:** 2, Unrestricted Elective

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**Business & Marketing 2 H ►****Grade:** 10 - 12**Prerequisite:** Business & Marketing 1**Fee:** \$70 for DECA membership required

Additional DECA fees based on level of student participation

\$70 FBLA membership encouraged

**Description:** This class serves as the extension of skills and competencies set forth in Business and Marketing 1 with a deeper exploration of business law as it applies to employee/employer relationships, introduction to business finance, management, marketing mix, and marketing strategies. Students will be challenged to utilize their skills in this course to participate in FBLA and/or DECA competitions. As members of these co-curricular courses, students will develop valuable 21<sup>st</sup>-century skills applicable to the current knowledge economy by gaining important skills in presentation, public speaking, visual aid development, conversation, and articulation.

**Comments:** This course replaces Marketing 2.

**Course:** 030055 A & B**Length:** 1 year**Credits:** 2, Unrestricted Elective

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**Business & Marketing 3** H▶**Grade:** 11 - 12**Prerequisite:** Business & Marketing 2**Fee:** \$70 for DECA membership required

Additional DECA fees based on level of student participation

\$70 FBLA membership encouraged

**Description:** Business and Marketing 3 serves as the transition from theory and introductory application to the process of real-world situations, analysis of business case law, torts, business finance, project management application, and channel management, business law, marketing, and project management. Students will be introduced to retail management, operations, buying, selling, customer service, distribution, and in-depth business marketing through a school-based enterprise. Students will take their skills to the next level with competition in written events and role-play through such organizations as FBLA and DECA.

**Course:** 030060 A & B**Length:** 1 year**Credits:** 2, Unrestricted Elective

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**Business & Marketing 4** H▶**Grade:** 11 - 12**Prerequisite:** Business & Marketing 3 or teacher recommendation**Fee:** \$70 for DECA membership required

Additional DECA fees based on level of student participation

\$70 FBLA membership encouraged

**Description:** Business and Marketing 3 serves as the transition from theory and introductory application to the process of real-world situations, analysis of business case law, torts, business finance, project management application, and channel management, business law, marketing, and project management. Students will be introduced to retail management, operations, buying, selling, customer service, distribution, and in-depth business marketing through a school-based enterprise. Students will take their skills to the next level with competition in written events and role-play through such organizations as FBLA and DECA.

**Course:** 030065 A & B**Length:** 1 year**Credits:** 2, Unrestricted Elective

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**Computer Applications 1** H▶**Grade:** 9 - 12**Fee:** none; \$70 FBLA membership encouraged

**Description:** This course provides students with skills for professional communication and presentations using a range of devices and software applications. Students will learn practice digital citizenship and information literacy. **Comments: Students will also receive instruction on essential computer, typing, and Microsoft Office skills. Students will have opportunities to test for Microsoft User certifications.**

**Course:** 161000**Length:** 1 semester**Credits:** 1, Unrestricted Elective

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**Computer Applications 2** H▶**Grade:** 9 - 12**Prerequisite:** Computer Applications 1**Fee:** none; \$70 FBLA membership encouraged

**Description:** This course advances the student's knowledge of technology and software introduced in Computer Applications 1, primarily the Microsoft Office Suite. **Comments: Students will have opportunities to test for Microsoft User certifications.**

**Course:** 161005**Length:** 1 semester**Credits:** 1, Unrestricted Elective

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**Programming 1 H▶**

Grade: 9 - 12

Course: 163015

Length: 1 semester

Credits: 1, Unrestricted Elective

**Description:** The objective of this course is to teach problem-solving strategies and develop critical thinking skills by studying the fundamental principles of computer languages (i.e. Python, C++ and or/Java). The students will develop algorithms and express them in top-down diagrams. Topics may include data types, variables, mathematical and logical operations, strings, character arrays, input, output, conditional statements, loop structures, and functions. **Comments: Students will have opportunities to test for Microsoft User certifications.**

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**Programming 2 H▶**

Grade: 9 - 12

Prerequisite: Programming 1

Course: 163020

Length: 1 semester

Credits: 1, Unrestricted Elective

**Description:** This course is a continuation of the principles of structural programming introduced in Programming 1. Topics may include loops, advanced use of functions, pointers, structures, data files, arrays, and an introduction to object-oriented programming. **Comments: Student will have opportunities to test for Microsoft User certifications.**

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**Personal Finance**

Grade: 11 - 12

Course: 153015

Length: 1 semester

Credits: 1, Unrestricted Elective

**Description:** This course surveys the basic personal financial needs and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns. **Comments: Students will study personal finance topics to include career development, money management, budgeting, credit management, taxes, buying a car, leasing an apartment, buying a house, insurance, savings and investments, and retirement. After taking this class, students will be able to make informed daily decisions regarding personal finances. A calculator is required for this course.**

## Industrial Arts Courses

Please see course descriptions for prerequisite courses

9 <sup>th</sup> – 10 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>	11 – 12 <sup>th</sup>	12 <sup>th</sup>
<b>Woodworking Technology 1</b> Course: 106500 A& B	<b>Woodworking Technology 2</b> Course: 106505 A& B	<b>Automotive Service Technology 1</b> Course: 108310 A&B <b>Building Construction Technology 1</b> Course: 101010 A&B	<b>Automotive Service Technology 2</b> Course: 108215 A&B <b>Building Construction Technology 2</b> Course: 101015 A&B

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### Woodworking Technology 1 *H* ▶

**Grade:** 9 - 10

**Fee:** \$100

**Description:** Woodworking Technology I is an introduction to woodworking and construction for freshman and sophomores only. This course provides an overview of the planning, design, layout, and technical drawing interpretation for practical use in woodworking, cabinetmaking, and mill working.

Students will develop basic woodworking skills with hand and power tools, demonstrate shop safety best practices, practice arithmetic and geometry, and learn to read technical drawings. The course will include discussion of industry opportunities and will offer training in communication, critical thinking, conflict resolution, professionalism, and other employability skills. Students will earn an OSHA 10 certification and an NCCER Core certification.

**Comments:** In the first year of the program (2024-25), 10<sup>th</sup> grade students who have completed the old “Woods 1” will enroll in the new “Wood Technology I”.

**Course:** 106500 A&B

**Length:** 1 year

**Credits:** 1, Unrestricted Elective

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### Woodworking Technology 2 *H* ▶

**Grade:** 10-12

**Fee:** \$100

**Description:** Students must have completed Woodworking Technology I with a C or better. Students must hold the following certifications: OSHA 10\* and an NCCER Core\*.

Students will expand their knowledge of workshop and tool safety, joinery techniques, project design, shop maintenance, power tool and hand tool use, and wood theory. There will be emphases on craftsmanship, joinery skills, attention to detail, and elements of design.

Students will earn an NCCER Cabinetmaking certification (beginning in 2025-26) as they learn to build cabinets and develop their woodworking knowledge.

Students will prepare and compete in Skills USA competitions.

**Comments:** In the first year of the program (2024-25), 10<sup>th</sup>-12<sup>th</sup> grade students who have completed the old “Cabinet 1” and/or “Cabinet 2” can enroll in Wood Technology II (Cabinetmaking).

(\*Certification requirement begins in the second year of the program (2025-26).)

**Course:** 106505 A&B

**Length:** 1 year

**Credits:** 1, Unrestricted Elective

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**Automotive Service Technology 1****Grade:** 11 - 12**Prerequisite:** None; Strongly Recommended: Algebra 1 & Geometry**Fee:** \$100

**Description:** In this first course of a two-year course sequence, students participate in real-world auto service training through maintenance, diagnosis, removal, and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training. **Comments: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.**

**Course:** 108310 A & B**Length:** 1 year**Credits:** 4, Core Elective

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**Automotive Service Technology 2****Grade:** 12**Prerequisite:** Automotive Service Technology 1 and instructor approval**Fee:** \$100

**Description:** In this second course of a two-year course sequence, students will continue to participate in real-world auto service training through maintenance, diagnosis, removal, and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training. **Comments: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.**

**Course:** 108315 A & B**Length:** 1 year**Credits:** 4, Core Elective

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**Building Construction Technology 1****Grades:** 11 - 12**Prerequisite:** None; Strongly Recommended: Algebra 1 & Geometry**Fees:** \$100

**Description:** In this first course of a two-year sequence, students will apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction with a focus on Pre-Apprentice Certification Training (PACT) in the following areas: (1) Building Trades, Safety, and First Aid; (2) Construction Math; (3) Tools & Construction Materials; and (4) Employability. Students will gain a foundation for entry-level employment or further schooling/training. **Comments: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.**

**Course:** 101010 A & B**Length:** 1 year**Credits:** 4, Core Elective



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**Building Construction Technology 2**

**Grades:** 12

**Prerequisite:** Building Construction 1 and instructor approval

**Fees:** \$100

**Course:** 101015 A & B

**Length:** 1 year

**Credits:** 4, Core Elective

**Description:** In this second course of a two-year sequence, students will continue to apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction with a focus on Pre-Apprentice Certification Training (PACT) in the following areas: (1) Building Trades, Safety, and First Aid; (2) Construction Math; (3) Tools & Construction Materials; and (4) Employability. Students will gain a foundation for entry-level employment or further schooling/training. **Comments:** This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.

## Health Sciences Courses

Please see course descriptions for prerequisite courses

11 <sup>th</sup> – 12 <sup>th</sup>	12 <sup>th</sup>
<b>Nursing Assistant (CNA)</b> Course: 074100 A&B	<b>Emergency Medical Technician (EMT)</b> Course: 079000 A&B

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### **Nursing Assistant**

**Grades:** 11 - 12

**Prerequisite:** Strongly Recommend Anatomy and Physiology. Students who would like to participate in advanced and postsecondary opportunities will only be approved if they meet the following criteria:

1. No grades lower than a "C" for the previous and current semesters of high school coursework (and college coursework if applicable);
2. No grades lower than a "B" for the previous and current semesters in the high school (and college if applicable) content area for which the student is applying to take advanced coursework;
3. On-track for graduation and not in need of remedial coursework;
4. Up-to-date with high school ICAP and/or postsecondary goals that are aligned to postsecondary planning;

**Course:** 074100 A & B

**Length:** 1 semester

**Credits:** Core Elective  
Plus college credit

**Fee:** Students must pay for the background check (approx. \$75) and liability insurance (approx. \$25) before they can engage in clinicals. Student will also be responsible for the cost of the board exams (approx. \$150).

**Description:** In this course, students will prepare for the nurse aide certification exam (CNA) by expanding foundational healthcare skills and applying basic nursing theory to the practice of client care. Through lab-based simulations and clinical experiences, students will demonstrate nursing principles and competencies, restorative services, safety practices, and emergency care while they model professional skills.

**Comments:** This is a set of college courses offered through Pikes Peak State College (PPSC) and taught by PPSC instructors. Students who are accepted must enroll at PPSC and grades posted on transcripts will apply to both PPSC and Academy District 20. This is year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students cannot begin clinicals and take the certifying exam until they reach the age of 16. Students must be 16 within 12 months of enrollment in the program.

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**Emergency Medical Technician****Grades:** 12**Prerequisite:** Strongly Recommend Anatomy and Physiology. Students who would like to participate in advanced and postsecondary opportunities will only be approved if they meet the following criteria:

1. No grades lower than a "C" for the previous and current semesters of high school coursework (and college coursework if applicable);
2. No grades lower than a "B" for the previous and current semesters in the high school (and college if applicable) content area for which the student is applying to take advanced coursework;
3. On-track for graduation and not in need of remedial coursework;
4. Up-to-date with high school ICAP and/or postsecondary goals that are aligned to postsecondary planning;

**Fee:** Students must pay for the background check (approx. \$75) and liability insurance (approx. \$25) before they can engage in clinicals. Student will also be responsible for the cost of the board exams (approx. \$150).**Description:** In this course, students will prepare for the National Registry of Emergency Medical Technicians (EMT) exam by applying foundational healthcare skills to the practice of basic emergency pre-hospital client care. Through classroom simulations and clinical experiences, students will demonstrate an understanding of basic anatomy and psychology, patient assessment, communication strategies, and emergency medical interventions. **Comments:** This is a set of college courses offered through Pikes Peak State College (PPSC) and taught by PPSC instructors. Students who are accepted must enroll at PPSC and grades posted on transcripts will apply to both PPSC and Academy District 20. This is year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students cannot begin clinicals or take the national exam until they reach the age of 18. Students must be 18 within 12 months of enrollment in the program.**Course:** 079000 A & B**Length:** 1 year**Credits:** Core Elective  
Plus college credit

## Digital Photography Courses

Please see course descriptions for prerequisite courses

9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>		11 <sup>th</sup> – 12 <sup>th</sup>
<b>Yearbook</b> Course: 054900 A&B	<b>Digital Photography 1</b> Course: 026050	<b>Digital Photography 2</b> Course: 026055	<b>Digital Photography 3</b> Course: 026060

### Digital Photography 1 (CTE Course)

**Grade:** 10 - 12

**Fee:** \$30

**Description:** Students will explore about visual communication and learn how to plan and produce photographic compositions that demonstrate an understanding of such techniques as light, composition, color, and visual impact. Emphasis will be placed on technical aspects of photography and manually adjusting your camera settings accordingly. Nuanced discourse of photojournalism and ethics in photography is introduced.

**Comments:** Students are encouraged to use their own DSLR (Digital Single-Lens Reflex) Camera, however one is NOT required for the course. One will be provided for each student with an equipment check-out contract. Students MAY NOT use phone cameras or point-and-shoot cameras. A 16GB SD card will also be required. This class incorporates computer-based systems.

**Course:** 026050

**Length:** 1 semester

**Credits:** 1, Fine Arts

### Digital Photography 2 (CTE Course)

**Grade:** 10 - 12

**Prerequisite:** Digital Photography 1

**Fee:** \$30

**Description:** This course will expand on the themes covered in previous photography courses, with specific emphasis toward expanding technical fluency and personal articulation, using industry standard software. Students will explore studio lighting techniques, and on location shooting.

**Comments:** Students are encouraged to use their own DSLR (Digital Single-Lens Reflex) Camera, however one is NOT required for the course. One will be provided for each student with an equipment check-out contract. Students MAY NOT use phone cameras or point-and-shoot cameras. A 16GB SD card will also be required. This class incorporates computer-based systems.

**Course:** 026055

**Length:** 1 semester

**Credits:** 1, Fine Arts

### Digital Photography 3 (CTE Course)

**Grades:** 11 - 12

**Prerequisites:** Digital Photography 2

**Fee:** \$30

**Description:** This course is designed to prepare students for professional and academic careers in advanced photography. The emphasis will be on fiber-based, archival printing for exhibition and portfolio. Considerable weight will be placed on an extended body of work, formally presented. Students will collaborate with local businesses to produce professional work for display, develop a personal business model, website, and other forms of professional presentation.

**Comments:** Students are encouraged to use their own DSLR (Digital Single-Lens Reflex) Camera, however one is NOT required for the course. One will be provided for each student with an equipment check-out contract. Students MAY NOT use phone cameras or point-and-shoot cameras. A 16GB SD card will also be required. This class incorporates computer-based systems.

**Course:** 026060

**Length:** 1 semester

**Credits:** 1, Fine Arts

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**Yearbook R** (CTE Course)

**Course: 054900 A & B**

**Grade: 9 - 12**

**Length: 1 year**

**Prerequisite: Application required**

**Credits: 2, Unrestricted Elective**

**Description:** This class is responsible for the production of the school's yearbook. Students will learn various types of software involved in publishing as well as basic principles of journalism, publishing, and layout design.

**Comments:** Students will be responsible for taking pictures at school events and games, copy and caption writing, editing, proofreading, and meeting deadlines. Some work time outside of class is required, and the ability to meet deadlines is essential.

# English Department

## English Required Courses

Please see course descriptions for prerequisite courses

**Graduation requirement:** 4 years of English required courses

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
<b>English 1</b> Course: 050080 A&B	<b>English 2</b> Course: 050085 A&B	<b>English 3</b> Course: 050090 A&B	<b>Comp &amp; Lit 4</b> Course: 050025 A&B
<b>Pre-AP English 1*</b> Course: 053109 A&B	<b>Pre-AP English 2*</b> Course: 053124 A&B	<b>AP English Lang &amp; Comp*</b> Course: 053175 A&B	<b>AP English Lit &amp; Comp*</b> Course: 054000 A&B

**English 1**    *N H*

**Grade:** 9

**Course:** 050080 A & B

**Length:** 1 year

**Credits:** 2, English

**Description:** This course emphasizes student proficiencies in grammar, writing, reading, speaking, listening, vocabulary and spelling. Students will learn the elements of literature and the writing process.

**Pre-AP English 1\***    *N H*

**Grade:** 9

**Course:** 053109 A & B

**Length:** 1 year

**Credits:** 2, English

**Prerequisite:** Honors identification, or motivation and task commitment

**Description:** Students will be introduced to Pre-AP English 1 course frameworks, foundational skills, and instructional standards set by the College Board. The course frameworks are aligned to College and Career Readiness and AP standards. Pre-AP courses are designed to support student success in AP, SAT, and other college readiness indicators. Students will engage in close, critical reading of a wide variety of literature and nonfiction in thematic units. Moreover, the course establishes a study of rhetoric and literature analysis as well as trains writers to focus on crafting complex sentences as the foundation for writing to facilitate complex thinking and to communicate ideas clearly. **Comments: Students will be encouraged to purchase several novels for this course.**

**English 2**    *N H*

**Grade:** 10

**Course:** 050085 A & B

**Length:** 1 year

**Credits:** 2, English

**Prerequisite:** English 1 or Pre-AP English 1

**Description:** Students will explore and analyze a variety of literary forms and genres. Students will further develop their vocabulary, grammar, writing and oral communication skills. **Comments: Students will be encouraged to purchase several novels for this course.**

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**Pre-AP English 2\*** *N H* **Course:** 053124 A & B  
**Grade:** 10 **Length:** 1 year  
**Prerequisite:** Pre-AP English 1, or English 1 with instructor approval **Credits:** 2, English  
**Description:** Students will continue to build upon course frameworks, skills, and instructional standards acquired in Pre-AP English 1. Students will engage with both fiction and nonfiction texts by authors from various cultural backgrounds and eras. Students will continue developing rhetoric and literary analysis skills introduced in Pre-AP English 1 and will learn different modes of writing including rhetorical analysis, argumentative, synthesis, and literary analysis. **Comment: Students will be encouraged to purchase several novels for this course.**

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**English 3** *N H* **Course:** 050090 A & B  
**Grade:** 11 **Length:** 1 year  
**Prerequisite:** English 2 or Pre-AP English 2 **Credits:** 2, English  
**Description:** This course emphasizes the study of American literature and uses that study as a vehicle for refining vocabulary, grammar, writing, and oral communication skills.

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**AP English Language & Composition\*** *N H* **Course:** 053175 A & B  
**Grade:** 11 **Length:** 1 year  
**Prerequisite:** Pre-AP English 2 or English 2 with instructor approval **Credits:** 2, English  
**Fee:** Approximately \$105 for the AP exam  
**Description:** The purpose of the AP English Language & Composition course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively. At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. This is a college course that emphasizes a study of rhetoric and both nonfiction and fiction writing and analysis. **Comments: Students will be encouraged to purchase several novels for this course.**

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**Composition & Literature English 4** *N H* **Course:** 050025 A & B  
**Grade:** 12 **Length:** 1 year  
**Prerequisite:** American Literature & Composition or AP English Language & Composition **Credits:** 2, English  
**Description:** This class prepares seniors for freshman college English composition courses and introduces a spectrum of traditionally canonical literature with which college-bound students are expected to be familiar. Students will write analyses of literature as well as a variety of essays including narration, description, persuasion, and exposition. **Comments: Students will be encouraged to purchase several novels for this course. Emphasis will also be on argumentative writing.**

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**AP English Literature & Composition\*** *N H* **Course:** 054000 A & B  
**Grade:** 12 **Length:** 1 year  
**Prerequisite:** AP English Language & Composition or American Literature & Composition with instructor approval **Credits:** 2, English  
**Fee:** Approximately \$105 for the AP exam  
**Description:** At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. AP courses are not college preparatory; they are considered college-level courses. Students engage in careful reading and critical analysis of imaginative literature from a variety of perspectives and for a variety of audiences. **Comments: Students will be encouraged to purchase several novels for this course.**

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## English Core Elective Courses

9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>
<b>Creative Writing 1</b> Course: 054200	<b>Science Fiction</b> Course: 053120  <b>Speech</b> Course: 055000

**Creative Writing 1**    *N*    *H* ▶

Grade: 9 - 12

Course: 054200

Length: 1 semester

Credits: 1, Core Elective

**Description:** In this course, students will explore many writing genres. The goal of the course is to help students identify quality writing and to realize the importance of accurately observing and interpreting their surroundings.

film production and learn digital editing techniques for student created short films. **Comments: Some work time outside of class is required, and the ability to meet deadlines is essential.**

**Science Fiction 1**    *H* ▶

Grade: 10 - 12

Course: 053210

Length: 1 semester

Credits: 1, Core Elective

**Description:** This course explores the history of science fiction through a variety of sources. Students will be required to produce appropriate written analyses. **Comments: This course has been updated to include novels and short stories. While some films will be present within the course, the primary focus will be reading with written analyses of a variety of sci fi themes/ideas.**

**Speech**    *N*    *H*

Grade: 10 - 12

Course: 055000

Length: 1 semester

Credit: 1, Core Elective

**Description:** This course includes writing and delivering speeches for a variety of purposes. Students will develop communication and public speaking skills including audience analysis, organization, content, and delivery. **Comments: This is not a competitive Forensics class; there are no out of school events.**



## Mathematics Department

Please see course descriptions for prerequisite courses.

**Graduation requirement:** Students must take 6 credits of math while in grades 9<sup>th</sup> -12<sup>th</sup> grades;  
Algebra 1 & Geometry are required for graduation

Current Enrolled Course	Course Options for the following school year
8 <sup>th</sup> Grade Math Courses (Such as Linear Algebra)	Algebra 1
Algebra 1 111100 A&B	Geometry
Geometry 116010 A&B	Algebra 2 Honors Algebra 2
Algebra 2 111200 A&B	Algebra 3 Statistics AP Statistics
Honors Algebra 2 111205 A&B	AP Pre-Calculus Algebra 3 Statistics AP Statistics
Algebra 3 111300 A & B	AP Pre-Calculus Statistics AP Statistics
Statistics 117000 A & B	AP Statistics Algebra 3
AP Pre-Calculus 113000 A & B	AP Calculus AB AP Statistics
AP Calculus AB 113100 A & B	AP Calculus BC AP Statistics
AP Calculus BC 113200 A & B	AP Statistics Calculus III (Concurrent Enrollment by application only)
Algebraic Business Calculations 111915 A & B	Teacher Recommendation Only

### Algebra 1 *N H*

Grade: 9 - 10

**\*\*Required for D20 graduation**

**Description:** Topics consisting of analyzing and solving linear equations, pairs of simultaneous linear equations, and functions will be further developed. Students will construct, compare, solve, and analyze linear, quadratic, and exponential functions and inequalities as well as perform arithmetic operations on polynomials. Students will also summarize, represent, and interpret data, including Personal Financial Literacy topics. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice. **Comments: A scientific or graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

**Course:** 111100 A & B

**Length:** 1 year

**Credits:** 2, Math (Algebra 1)

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**Geometry** *N H*

Grade: 9 - 12

Prerequisite: Algebra 1

**\*\*Required for D20 graduation**

**Description:** Topics consisting of Pythagorean Theorem, congruence and similarity will be further developed. Students will prove geometric theorems involving similarity, transformation, and congruence of two-dimensional and three-dimensional figures using inductive and deductive reasoning and constructions. Students will solve problems and model real-world situations involving two-dimensional and three-dimensional figures, trigonometric ratios, probability, and Personal Financial Literacy. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice. **Comments: A scientific or graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

Course: 116010 A &amp; B

Length: 1 year

Credits: 2, Math (Geometry)

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**Algebra 2** *N H*

Grade: 9 - 12

Prerequisite: Geometry

**Description:** Topics consisting of linear, quadratic, and exponential functions and trigonometric ratios will be further developed. Students will interpret, analyze, model, and transform polynomial, rational, trigonometric, and radical functions. Students will solve and justify solutions for polynomial functions including real and complex solutions. Students will solve exponential and logarithmic functions using appropriate technology. Students will also summarize, represent, and interpret data, including Personal Financial Literacy topics. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

Course: 111200 A &amp; B

Length: 1 year

Credits: 2, Math

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**Honors Algebra 2\*** *N H*

Grade: 9 - 12

Prerequisite: Geometry; Teacher recommendation

**Description:** Topics in previous algebra courses are built upon, and the additional topics of polynomials, rational, exponential, and logarithmic functions, as well as matrices, complex numbers, sequences and series, probability and statistics, and trigonometry are presented. Graphing calculators will be used to promote understanding of advanced concepts and develop graphical and numeric solutions. Problems are often linked to real-world applications, and graphing, vocabulary, and technical writing will be emphasized. This course is designed to strengthen abstract reasoning and critical thinking skills. Strong performance in prerequisite courses is essential to meet the increased expectations. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120). The course will also involve some combination of outside research, reading, and projects as determined by the teacher.**

Course: 111205 A &amp; B

Length: 1 year

Credits: 2, Math

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**Algebra 3** *N H*

Grade: 9 - 12

Prerequisite: Algebra 2

**Description:** Algebra 3 reviews and strengthens topics covered in Algebra 2. Additional topics include further study in trigonometry and statistics. Problems are linked to real-world applications with an emphasis on graphing, vocabulary, and technical writing. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

Course: 111300 A &amp; B

Length: 1 year

Credits: 2, Math

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**AP Pre-Calculus\*** *N H* **Course: 113190 A & B**  
**Grade:** 11 - 12 **Length:** 1 year  
**Prerequisite:** Honors Algebra 2 or Algebra 2 or teacher recommendation **Credits:** 2, Math  
**Fee:** Approximately \$105 for the AP exam  
**Description:** At the conclusion of this course, students will be expected to take the Advanced Placement Precalculus exam for potential college credit. Students in AP Precalculus will focus on functions modeling dynamic phenomena. Students will develop and hone symbolic manipulation skills, including solving equations and manipulating expressions, and will learn that functions and their compositions, inverses, and representations, are useful for solving problems in mathematical and applied contexts. Students will apply the skills learned to situations that involve quantitative reasoning. Topics include polynomial, rational, exponential, logarithmic, trigonometric, polar and functions involving parameters, vectors, and matrices. These topics are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

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**AP Calculus AB\*** *N H* **Course: 113100 A & B**  
**Grade:** 10 - 12 **Length:** 1 year  
**Prerequisite:** AP Pre-Calculus **Credits:** 2, Math  
**Fee:** Approximately \$105 for the AP exam  
**Description:** Advanced Placement Calculus AB builds upon algebraic and geometric principles. Applications involve limits, differentiation, and integration tied to topics including related rates, graphical analysis, integral areas, and volumes of revolution. At the end of this course, students will be prepared for and expected to take the Advanced Placement Calculus AB exam for potential college credit. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

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**AP Calculus BC\*** *N H* **Course: 113200 A & B**  
**Grade:** 11 - 12 **Length:** 1 year  
**Prerequisite:** AP Calc AB **Credit:** 2, Math  
**Fee:** Approximately \$105 for the AP exam  
**Description:** Advanced Placement Calculus BC builds upon algebraic and geometric principles. This course covers all the topics in Advanced Placement Calculus AB with further investigation into vectors, parametric equations, infinite series, and differential equations. At the conclusion of this course, students will be prepared for and expected to take the Advanced Placement Calculus BC exam for potential college credit. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

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**Calculus III: Multivariable Calculus\*** *N H* **Course: 113900**  
**Grade:** 12 **Length:** 1 semester  
**Prerequisite:** AP Calculus BC **Credits:** 1, Math  
**Description:** This course is equivalent to a third semester college calculus course. Differential and integral calculus of several variables are the focal points of this college-level course which extends the advanced placement calculus experience to three dimensions, culminating in the calculus applications to physics with Stokes', Green's, and Gauss' Theorems. **Comments: Course will be held off site.**

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**Algebraic Business Calculations** *H* ▶**Grade:** 11 - 12**Prerequisite:** Teacher recommendation only

**Description:** Students will learn money-saving tips and business strategies as they apply math to common business transactions. Students will learn about their personal earning power, payroll, banking, savings, compound interest, business costs, consumer credit, credit cards, lottery winnings and annuities, loans, costs of buying a car and home, investments, stocks, bonds, insurance, and financial reporting. The subject material will be taught at the college prep level; however, the instructor will progress at a speed suitable for high school students. **Comments: A calculator is required for this course.**

**Course:** 111915 A & B**Length:** 1 year**Credits:** 2, Math

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**Statistics** *N H***Grade:** 10 - 12**Prerequisite:** Algebra 2

**Description:** Statistical concepts to construct simple surveys and experiments will be used to analyze data. Basic statistics covers the collection, organization, and analysis of data. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

**Course:** 117000 A & B**Length:** 1 year**Credits:** 2, Math

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**AP Statistics\*** *N H***Grade:** 11 - 12**Prerequisite:** Algebra 3, or Statistics, or AP Pre-Calculus**Fee:** Approximately \$105 for the AP exam

**Description:** Advanced Placement Statistics is a course that covers topics related to the collection, organization, and analysis of data. Topics include descriptive statistics, probability, simulation, binomial and normal distributions, hypothesis testing, and statistical inference. At the conclusion of this course, students will be prepared for and expected to take the Advanced Placement exam for potential college credit. **Comments: A graphing calculator is required for this course (NumWorks or TI-84 are recommended, approximately \$80 - \$120).**

**Course:** 117005 A & B**Length:** 1 year**Credits:** 2, Math

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**Accounting 1** *H***Grade:** 10 - 12**Prerequisite:** Algebra 1**Fee:** \$25, \$70 FBLA membership is encouraged

**Description:** Whether college-bound or going directly into the business world, this course is for anyone interested in learning the "language of business." Students will perform manual as well as computerized accounting activities. Topics may include transaction analysis, worksheet and financial statement preparation, accounting for sole proprietorships, partnerships and corporations, special journals, and payroll systems. Periodic job simulation projects will provide realistic job experiences. **Comments: Accounting is the backbone of successful business practices and is highly encouraged for students who may be considering a degree in business or marketing.**

**Course:** 112900 A & B**Length:** 1 year**Credits:** 2, Math

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**Accounting 2** H ►

**Grade:** 11 - 12

**Prerequisite:** Accounting 1

**Fee:** \$25, \$70 FBLA membership is encouraged

**Description:** This course is a continuation of Accounting 1 for college-bound or career-oriented students. Students will use computerized accounting programs while learning advanced accounting concepts including accounting for partnerships and corporations, divisions and systems within a company, accounting for non-profit organizations, uncollectible accounts, depreciation, and financial analysis and interpretation.

**Course:** 031005 A & B

**Length:** 1 year

**Credits:** 2, Math

## Performing Arts Department

Please see course descriptions for prerequisite courses.

**Graduation requirement:** 1 Fine Arts credit (can be Performing Arts or Visual Arts)

9 <sup>th</sup> – 12 <sup>th</sup>	10 – 12 <sup>th</sup>
<p><b>Music Appreciation</b> Course: 127000</p>	<p><b>Beginning Music Theory</b> Course: 123000</p> <p><b>Intermediate Music Theory</b> Course: 123005</p>

**Beginning Music Theory** *H* ▶

**Grade:** 10 - 12

**Prerequisite:** One year of high school band/choir or instructor permission

**Description:** This course is a comprehensive introduction to the fundamentals of music, including music reading, ear training, harmonic writing, and keyboard harmony. It is of special interest to the potential college music major and career musician. **Comments:** It is recommended that students be able to fluently read music prior to taking.

**Course:** 123000

**Length:** 1 semester

**Credits:** 1, Fine Arts

**Intermediate Music Theory** *H* ▶

**Grade:** 10 - 12

**Prerequisite:** Beginning Music Theory or instructor permission

**Description:** This course builds on the fundamentals taught in Beginning Music Theory and includes advanced music reading, advanced ear training, advanced harmonic writing, and advanced keyboard harmony. This course is of special interest to the potential college music major and career musician.

**Course:** 123005

**Length:** 1 semester

**Credits:** 1, Fine Arts

**Music Appreciation** *H* ▶

**Grade:** 9 - 12

**Fee:**

**Description:** Music Appreciation is an exploratory music class that covers many types of music, including, but not limited to, baroque, classical, jazz, Latin and rock styles. Students in this class will listen to music, watch videos, and perform presentations in class on music that they enjoy. This class is open to anyone who likes music and desires to learn more about how today's music has evolved from the music of previous eras.

**Course:** 127000

**Length:** 1 semester

**Credits:** 1, Fine Arts

## Vocal Music Courses

9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>
<b>Tenor Bass Choir</b> Course: 124026 A&B	<b>Chamber Singers</b> Course: 124005 A&B
<b>Treble Choir</b> Course: 124041 A&B	<b>Jazz Choir</b> Course: 124020 A&B
	<b>Treble Ensemble</b> Course: 124046 A&B

**Tenor Bass Choir**    *H ▶ R*

**Grade:** 9 - 12

**Fee:** \$35, \$20 uniform rental fee

**Description:** Students will develop vocal technique while studying standard musical literature. Styles include popular and traditional genres. Students are expected to participate in public performances, school assemblies, and events. Students may be required to purchase performance attire. **Comments: Performances and some practices outside the regular school day are required.**

**Course:** 124026 A & B

**Length:** 1 year

**Credits:** 2, Fine Arts

**Treble Choir**    *H ▶ R*

**Grade:** 9 - 12

**Fee:** \$35, \$20 uniform rental fee

**Description:** Students will develop vocal technique while studying standard musical literature. Styles include popular and traditional genres. Students are expected to participate in public performances, school assemblies, and events. Students may be required to purchase performance attire. **Comments: Performances and some practices outside the regular school day are required.**

**Course:** 124041 A & B

**Length:** 1 year

**Credits:** 2, Fine Arts

**Chamber Singers**    *H ▶ R*

**Grade:** 10 - 12

**Fee:** \$35, \$20 uniform rental fee

**Prerequisite:** Instructor approval by audition

**Description:** The Chamber Singers is a disciplined group that performs music from the Renaissance to challenging contemporary choral works. Dedication and commitment are an important part of this group. Chamber singers perform at school and community events as well as universities and state competitions. Students are asked to put in outside practice time. Students are required to purchase performance attire. **Comments: Performances and some practices outside the regular school day are required.**

**Course:** 124005 A & B

**Length:** 1 year

**Credits:** 2, Fine Arts

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**Jazz Choir** H ► R**Grade:** 10 - 12**Fee:** \$35, \$20 uniform rental fee**Prerequisite:** Instructor approval by audition

**Description:** Jazz Choir will perform jazz and modern popular music accompanied by rhythm section. Students will learn to improvise and perform vocal jazz techniques. They will perform at school and community events as well as festival competitions. Students are asked to put in outside practice time. Students are required to purchase performance attire. **Comments: Participation in a concert ensemble is required. Performances and sectional rehearsals scheduled outside the regular school day are required, including a mandatory field trip which may be at an additional cost.**

**Course:** 124020 A & B**Length:** 1 year**Credits:** 2, Fine Arts

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**Treble Ensemble** H ► R**Grade:** 10 - 12**Fee:** \$35, \$20 uniform rental fee**Prerequisite:** Instructor approval by audition

**Description:** This advanced choir will focus on standard women's vocal literature on an intermediate level. Participation in this group requires special rehearsals and performances. Vocal techniques will be stressed, and a variety of musical styles and literature will be performed. **Comments: Performances and some practices outside the regular school day are required.**

**Course:** 124046 A & B**Length:** 1 year**Credits:** 2, Fine Arts



## Instrumental Music Courses

9<sup>th</sup> – 12<sup>th</sup>

<b>Concert Band 2</b> Course: 125017 A&B	<b>Jazz Ensemble</b> Course: 125035 A&B	<b>Percussion Techniques</b> Course: 125045A A & B
<b>Concert Band</b> Course: 125015	<b>Advanced Jazz Ensemble</b> Course: 125040 A&B	<b>Marching Band</b> Course: 125025
<b>Symphonic Band</b> Course: 125055 A&B	<b>Beginning Guitar</b> Course: 125000	<b>Color Guard</b> Course: 126000
<b>Wind Ensemble</b> Course: 125060 A&B	<b>Intermediate Guitar</b> Course: 125005	

**Advanced Jazz Ensemble**    *H▶ R*

**Grade:** 9 - 12

**Prerequisite:** Audition Only; concurrently enrolled in any concert band

**Fee:** \$35, \$20 uniform rental fee **District 20 instrument rental fees may apply**

(\$20 summer rental & \$50 per semester for using school instruments-including percussionists).

**Description:** Advanced jazz band students learn and perform the music styles associated with jazz and improvisation. Instrumentation is that of the standard jazz big band. Performances and sectional rehearsals scheduled outside the regular school day are required. Students may be required to purchase performance attire. Students will be expected to participate in public performances, assemblies, and school events.

**Comments:** Participation in a concert ensemble is required. Performances and sectional rehearsals scheduled outside the regular school day are required, including a mandatory field trip which may be at an additional cost.

**Course:** 125040 A & B

**Length:** 1 year

**Credits:** 2, Fine Arts

**Beginning Guitar**    *H▶ R*

**Grade:** 9 - 12

**Course:** 125000

**Length:** 1 semester

**Credits:** 1, Fine Arts

**Fee:** \$35, \$20 uniform rental fee **District 20 instrument rental fees may apply**

(\$20 summer rental & \$50 per semester for using school instruments-including percussionists)

**Description:** This course is designed for beginning guitar students. The course will teach the fundamentals of music reading and beginning guitar techniques. Students will improve their understanding of music as they study a variety of musical styles and music from different cultures. Students must purchase the class text and have their own acoustic guitar.



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**Jazz Ensemble** H► R

Grade: 9 - 12

Prerequisite: Audition Only; concurrently enrolled in any concert band

Fee: \$35, \$20 uniform rental fee **District 20 instrument rental fees may apply****(\$20 summer rental & \$50 per semester for using school instruments-including percussionists)**

**Description:** Jazz band students learn and perform the music styles associated with jazz and improvisation. Instrumentation is that of the standard jazz big band. Performance and sectional rehearsals scheduled outside the regular school day are required. Students will be expected to participate in public performances, assemblies, and school events. Students may be required to purchase performance attire. **Comments:** Participation in a concert ensemble is required. Performances and sectional rehearsals scheduled outside the regular school day are required, including a mandatory field trip which may be at an additional cost.

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**Marching Band** H► R

Grade: 9 - 12

Co-requisite: Concurrently enrolled in any concert band

Fee: \$600 (transportation, equipment, meals, staffing, drill). **All District 20 instrument rental fees may apply****(\$20 summer rental & \$50 per semester for using school instruments-including percussionists)**

**Description:** Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events. **Comments:** Marching Band is an 9th block course; rehearsal times to be determined by instructor. Summer marching band camp is required. It is essential that all students plan on attending this camp.

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**Percussion Techniques** H► R

Grade: 9 - 12

Prerequisite: Audition Only or teacher recommendation

Fee: \$35, \$20 uniform rental fee **District 20 instrument rental fees may apply****(\$20 summer rental & \$50 per semester for using school instruments-including percussionists)**

**Description:** Students in this class will study basic through advanced percussion technique. They will have an opportunity to study marching percussion, concert percussion, drum-set and world percussion. Students will be exposed to diverse musical styles and investigate the historical/multi-cultural roles of percussion. This is a performance-based class. Students will be expected to perform in public, and at school assemblies and events.

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**Symphonic Band** H► R

Grade: 9 - 12

Prerequisite: Audition Only

Fee: \$35, \$20 uniform rental fee **District 20 instrument rental fees may apply****(\$20 summer rental & \$50 per semester for using school instruments-including percussionists)**

**Description:** Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

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Course: 125035 A &amp; B

Length: 1 year

Credits: 2, Fine Arts

Course: 125025

Length: 1 semester (Fall)

Credits: 1, Fine Arts

Course: 125045 A &amp; B

Length: 1 year

Credits: 2, Fine Arts

Course: 125055 A &amp; B

Length: 1 year

Credits: 2, Fine Arts

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**Wind Ensemble** H ► R

**Grade:** 9 - 12

**Prerequisite:** Audition Only

**Fee:** \$35, \$20 uniform rental fee **District 20 instrument rental fees may apply**

**(\$20 summer rental & \$50 per semester for using school instruments-including percussionists)**

**Description:** Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

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**Course:** 125060 A & B

**Length:** 1 year

**Credits:** 2, Fine Arts

## Theatre Courses

9 <sup>th</sup> – 12 <sup>th</sup>		10 <sup>th</sup> – 12 <sup>th</sup>		11 <sup>th</sup> – 12 <sup>th</sup>		12 <sup>th</sup>	
	<b>Stagecraft 1B: Costumes, Hair, Makeup</b> Course: 056020 B3	<b>Stagecraft 2: Costumes, Hair, Makeup</b> Course: 056025 A3&B3	<b>Stagecraft 2: Lights &amp; Sound</b> Course: 056025 A1&B1	<b>Stagecraft 3: Costumes, Hair, Makeup</b> Course: 056030 A3&B3	<b>Stagecraft 3: Lights &amp; Sound</b> Course: 056030 A1&B1	<b>Stagecraft 4: Capstone/Work- Based Learning</b> Course: 056035 A&B	
<b>Stagecraft 1A: Intro to Technical Theatre</b> Course: 056420 A0	<b>Stagecraft 1B: Lights &amp; Sound</b> Course: 056020 B1	<b>Stagecraft 2: Set, Paint, Props</b> Course: 056025 A2&B2	<b>Stagecraft 2: Set, Paint, Props</b> Course: 056025 A2&B2	<b>Stagecraft 3: Set, Paint, Props</b> Course: 056030 A2&B2	<b>Stagecraft 3: Set, Paint, Props</b> Course: 056030 A2&B2	<b>Theatre 4: Production Management A</b> Course: 056641 A&B	<b>Theatre 5: Capstone</b> Course: 056643 A&B
<b>Theatre 1</b> Course: 056625	<b>Theatre 2</b> Course: 056630 A&B	<b>Theatre 3: Performance and Communication</b> Course: 056637 A&B	<b>Theatre 4: Production Management A</b> Course: 056641 A&B	<b>Theatre 5: Capstone</b> Course: 056643 A&B	<b>Theatre 5: Capstone</b> Course: 056643 A&B	<b>Theatre 5: Capstone</b> Course: 056643 A&B	<b>Theatre 5: Capstone</b> Course: 056643 A&B

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### Stagecraft 1A: Intro To Technical Theatre *H*▶

**Grade:** 9 - 12

**Fee:** \$35

**Description:** Students are introduced to the variety of programs and occupations in the arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. In this hands-on lab course, students will learn basic stage tools and facilities, including scenic construction, scenic painting, lighting, make-up, costuming, props, publicity, and general stage operation and management. This course is part of CTE's Secondary Pathways Program.

**Course:** 056420 A0

**Length:** 1 semester

**Credits:** 1, Fine Arts

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### Stagecraft 1B: Costumes, Hair, And Makeup *H*▶

**Grade:** 10 - 12

**Prerequisite:** Stagecraft 1A or Instructor Approval

**Fee:** \$35

**Description:** Students are introduced to the variety of programs and occupations in the arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. Upon completion of Stagecraft 1A-Introduction to Technical Theatre, students will begin to focus on specific areas of interest. In this course, students will explore costumes, hair, and makeup. This course is part of CTE's Secondary Pathways Program.

**Course:** 056020 B3

**Length:** 1 semester

**Credits:** 1, Fine Arts

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**Stagecraft 1B: Lights And Sound** H▶

Grade: 9 - 12

Prerequisite: Stagecraft 1A or Instructor Approval

Fee: \$35

**Description:** Students are introduced to the variety of programs and occupations in the arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. Upon completion of Stagecraft 1A-Introduction to Technical Theatre, students will begin to focus on specific areas of interest. In this course, students will explore lights and sound. This course is part of CTE's Secondary Pathways Program.

Course: 056020 B1

Length: 1 semester

Credits: 1, Fine Arts

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**Stagecraft 1B: Set, Paint, And Props** H▶

Grade: 9 - 12

Prerequisite: Stagecraft 1A or Instructor Approval

Fee: \$35

**Description:** Students are introduced to the variety of programs and occupations in the arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. Upon completion of Stagecraft 1A-Introduction to Technical Theatre, students will begin to focus on specific areas of interest. In this course, students will explore set, paint, and props. This course is part of CTE's Secondary Pathways Program.

Course: 056020 B2

Length: 1 semester

Credits: 1, Fine Arts

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**Stagecraft 2: Costumes, Hair And Makeup** H▶

Grade: 10 - 12

Prerequisite: Stagecraft 1B: Costumes, Hair, and Makeup or Instructor Approval

Fee: \$70

**Description:** Technical Theatre A / Technical Theatre B 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. Students in this lab course will focus on design as they experience the elements of backstage theatre production, and will increase their understanding and skills in the areas of costumes, hair, and makeup. This course is part of CTE's Secondary Pathways Program.

Course: 056025 A3 &amp; B3

Length: 1 year

Credits: 2, Fine Arts

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**Stagecraft 2: Lights And Sound** H▶

Grade: 10 - 12

Prerequisite: Stagecraft 1B: Lights and Sound or Instructor Approval

Fee: \$70

**Description:** Technical Theatre A / Technical Theatre B 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. Students in this lab course will focus on design as they experience the elements of backstage theatre production, and will increase their understanding and skills in the areas of lighting practices, lighting design, sound technologies, and sound design. This course is part of CTE's Secondary Pathways Program.

Course: 056025 A1 &amp; B1

Length: 1 year

Credits: 2, Fine Arts

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**Stagecraft 2: Set, Paint, And Props** H▶**Grade:** 10 - 12**Prerequisite:** Stagecraft 1B: Set, Paint and Props or Instructor Approval**Fee:** \$70

**Description:** Technical Theatre A / Technical Theatre B 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. Students in this lab course will focus on design as they experience the elements of backstage theatre production and will increase their understanding and skills in the areas of scenic construction, scenic design, scenic painting, props artistry, and props design. This course is part of CTE's Secondary Pathways Program.

**Course:** 056025 A2 & B2**Length:** 1 year**Credits:** 2, Fine Arts

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**Stagecraft 3: Costumes, Hair, And Makeup** H▶**Grade:** 11-12**Prerequisite:** Stagecraft 2: Costumes, Hair, and Makeup or Instructor Approval**Fee:** \$70

**Description:** Set Design A / Set Design B Emphasizes two- and three-dimensional drawing and design, and color theory. Students construct 3-D models and a theatrical stage set. Students will participate in theatrical opportunities where they will demonstrate and apply their knowledge and skills of designing, constructing, and implementing stagecraft elements of costumes, hair, and makeup. The course is part of CTE's Secondary Pathways program.

**Course:** 056030 A3 & B3**Length:** 1 year**Credits:** 2, Fine Arts

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**Stagecraft 3: Lights And Sound** H▶**Grade:** 11-12**Prerequisite:** Stagecraft 2: Lights and Sound or Instructor Approval**Fee:** \$70

**Description:** Set Design A / Set Design B Emphasizes two- and three-dimensional drawing and design, and color theory. Students construct 3-D models and a theatrical stage set. Students will participate in theatrical opportunities where they will demonstrate and apply their knowledge and skills of designing, constructing, and implementing stagecraft elements in the areas of lighting practices, lighting design, sound technologies, and sound design. This course is part of CTE's Secondary Pathways program.

**Course:** 056030 A1 & B1**Length:** 1 year**Credits:** 2, Fine Arts

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**Stagecraft 3: Set, Paint, And Props** H▶**Grade:** 11-12**Prerequisite:** Stagecraft 2: Set, Paint and Prop or Instructor Approval**Fee:** \$70

**Description:** Set Design A / Set Design B Emphasizes two- and three-dimensional drawing and design, and color theory. Students construct 3-D models and a theatrical stage set. Students will participate in theatrical opportunities where they will demonstrate and apply their knowledge and skills of designing, constructing, and implementing stagecraft elements in the areas of set, paint, and props. The course is part of CTE's Secondary Pathways program.

**Course:** 056030 A2 & B2**Length:** 1 year**Credits:** 2, Fine Arts

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**Stagecraft 4: Capstone/Work-Based Learning H▶****Grade:** 12**Prerequisite:** Stagecraft 3 or Instructor Approval**Fee:** \$70

**Description:** This course allows for advanced work in the program of study. This advanced work can be individualized to the specific program of study to allow for specialized study for the student. It may include project-based learning or preparation for end of program industry certification. Specific content and course design will be determined by the instructor in collaboration with the student. This course is part of the Career and Technical Education Secondary Pathways Program, and aligns to Work Based Learning: Production & Managerial Arts A&B.

**Course:** 056950 A & B**Length:** 1 year**Credits:** 2, Fine Arts

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**Theatre 1 H▶****Grade:** 9 - 12

**Description:** Students will learn and apply fundamentals of theatre performance and production including lexicon/terms, improvisation and pantomime, voice control, character analysis, and stage movement and blocking.

**Course:** 056625**Length:** 1 semester**Credits:** 1, Fine Arts

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**Theatre 2 H▶****Grade:** 9 - 12**Prerequisite:** Theatre 1 or Instructor Approval

**Description:** Students will increase their knowledge and skill in the areas of improvisation, pantomime, stage movement, characterization, and voice control. Students will be introduced to additional topics including stage directions, philosophies of blocking, and production critique.

**Course:** 056630 A & B**Length:** 1 year**Credits:** 2, Fine Arts

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**Theatre 3: Performance & Communication H▶****Grade:** 10 - 12**Prerequisite:** Theatre 2 or Instructor Approval

**Description:** Students will be introduced to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership. This course is part of the Career and Technical Education Secondary Pathways. **Comments: This is a performance-based class, and students are required to perform in a public performance at the end of each semester.**

**Course:** 056635 A & B**Length:** 1 year**Credits:** 2, Fine Arts

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**Theatre 4: Production Management A H▶****Grade:** 11 - 12**Prerequisite:** Theatre 3 or Instructor Approval

**Description:** Students will be introduced to various areas of management within the stage production industry which include stage manager (working with assistants, actors, and directors), theatre manager (advertising, box office sales, public relations), human resources (training, hiring, safety, compensation, law), and financial manager (payroll, budget). This course is part of the Career and Technical Education Secondary Pathways. **Comments: This is a performance-based class, and students are required to perform in a public performance at the end of each semester.**

**Course:** 056640 A & B**Length:** 1 year**Credits:** 2, Fine Arts



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**Theatre 5: Capstone** H ►

**Grade:** 12

**Prerequisite:** Theatre 4 or Instructor Approval

**Description:** This course allows for individualized, advanced, and/or cumulative work in a program of study. This work is individualized to the student within a specific program of study to prepare for certification. Students will collaborate with the instructor to determine specific content and course design.

**Course:** 056643 A & B

**Length:** 1 year

**Credits:** 2, Fine Arts

## Dance Courses

Most courses can count as credit for either fine arts or physical education.

9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>
<b>Explorations in Dance</b> Course: 083305	<b>Explorations in Dance</b> Course: 083309
<b>Explorations in Dance 2</b> Course: 083306 A&B	<b>Dance Leadership</b> Course: 120030
<b>Explorations in Dance 3</b> Course: 083307 A&B	
<b>Explorations in Dance 4</b> Course: 083308 A&B	

### Explorations In Dance

**Grade:** 9 - 12

**Fee:** \$35

**Description:** In this class, you will be introduced to a variety of dance styles including ballet, jazz, modern, hip-hop, and swing. During the year, students will dance to their favorite music as well as be exposed to a variety of new sounds. In addition, students will have the opportunity to learn who the well-known choreographers are and how they influenced the different styles of dance today. The class will attend dance performances and learn to appreciate the choreography. Students will use their learning to create dance performances.

**Comments:** Performances and some practices outside the regular school day are required.

**Course:** 083305

**Length:** 1 semester

**Credits:** 1, PE or Fine Arts

### Explorations In Dance 2 *R*

**Grade:** 9 - 12

**Fee:** \$70

**Prerequisite:** Explorations in Dance 1 or placement by audition

**Description:** This course provides continued study for dance students who have achieved basic levels of skill, technique, and knowledge in ballet, jazz, and contemporary. Emphasis is placed on on-going technique, artistic growth, and performance skills. **Comments:** Performances and some practices outside the regular school day are required.

**Course:** 083306 A & B

**Length:** 1 year

**Credits:** 2, PE or Fine Arts

### Explorations In Dance 3 *R*

**Grade:** 9 - 12

**Fee:** \$70

**Prerequisite:** Instructor approval and placement by audition

**Description:** This course provides continued study for dance students who have achieved intermediate levels of skills, technique, artistic growth, and performance skills. **Comments:** Performances and some practices outside the regular school day are required.

**Course:** 083307 A & B

**Length:** 1 year

**Credits:** 2, PE or Fine Arts

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**Explorations In Dance 4** *R***Grade:** 9 - 12**Fee:** \$70**Prerequisite:** Instructor approval and placement by audition**Description:** This course provides continued study for dance students who have achieved high levels of skill, technique, knowledge in ballet, jazz, and contemporary, improvisation, and dance composition. Students will continue to develop skills and study the art of choreography. **Comments: Performances and some practices outside the regular school day are required.****Course:** 083308 A & B**Length:** 1 year**Credits:** 2, PE or Fine Arts

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**Explorations In Dance 5** *R***Grade:** 10 - 12**Fee:** \$70**Prerequisite:** Explorations in Dance 4 and instructor approval by audition**Description:** This year-long dance class provides continued study for dance students who have achieved high levels of skill, technique, knowledge in ballet, jazz, and contemporary, improvisation, and dance composition. Students in Dance 5 will study the art of choreography, first by developing a choreographic piece, holding auditions in class, casting their pieces, rehearsing them, and culminating in producing an evening concert for an audience. **Comments: This advanced level course demands a high level of effort and commitment while encouraging enjoyment of creative expression. Assessments include performances; therefore, attendance at dress-rehearsals and performances are mandatory.****Course:** 083309 A & B**Length:** 1 year**Credits:** 2, PE or Fine Arts

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**Dance Leadership** *H▶ R***Grade:** 10 - 12**Prerequisite:** Instructor approval by audition**Description:** In this year-long dance class, students will work cooperatively with other students and discover the many parts to a dance performance, including costumes, makeup, lighting, and choreography. Students will attend live dance performances and critique the different aspects of the production. Choreography will be a large part of this class along with learning about the history of dance and current dance companies. Students will then be brought together in a culminating performance. **Comments: Performances, practices and meetings outside the regular school day are required.****Course:** 120030**Length:** 1 year**Credits:** 2, PE or Fine Arts

**Physical Education Department**  
Please see course descriptions for prerequisite courses.

Graduation requirement: 1 credit of Health  
3 credits of PE

9 <sup>th</sup>	9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>		11 <sup>th</sup> – 12 <sup>th</sup>
<b>Health &amp; Wellness</b> Course: 081000 <u>REQUIRED</u>	<b>Explorations in Dance</b> Course: 083305  <b>Explorations in Dance 2</b> Course: 083306 A&B  <b>Explorations in Dance 3</b> Course: 083307 A&B  <b>Explorations in Dance 4</b> Course: 083308 A&B	<b>Explorations in Dance 5</b> Course: 083309 A&B  <b>Dance Leadership*</b> Course: 120030  <b>Lifelong Team Sports 1</b> Course: 083800  <b>Aquatic Sports &amp; Conditioning</b> Course: 083100  <b>Aquatic Sports &amp; Conditioning 2</b> Course: 083102  <b>Lifeguard Training</b> Course: 082800	<b>Racquet Sports 1</b> Course: 083525  <b>Fitness Yoga 1</b> Course: 083015  <b>Weights &amp; Fitness 1</b> Course: 083215  <b>Women's Weights &amp; Fitness</b> Course: 083225  <b>Sports Training 1</b> Course: 083265	<b>Fitness Hike-Walk</b> Course: 084410  <b>Fitness Yoga 2</b> Course: 083016  <b>Lifelong Team Sports 2</b> Course: 083805  <b>Racquet Sports 2</b> Course: 083530  <b>Rocky Mountain High 1</b> Course: 083600  <b>Rocky Mountain High 2</b> Course: 083605  <div style="text-align: center;">12<sup>th</sup></div> <b>Rocky Mountain High Leadership</b> Course: 083610
9 <sup>th</sup> – 10 <sup>th</sup>				
<b>Intro to PE</b> Course: 081000  <b>Total Fitness</b> Course: 083205				

**Required Physical Education Courses**

**Health And Wellness**  
Grade: 9

**Course: 081000**  
**Length:** 1 semester  
**Credits:** 1, Health

**Description:** Health and Wellness or Modified Health and Wellness is a graduation requirement for Academy District 20, and it is to be taken during freshman year. Students will be introduced to the social, physical, mental, and emotional aspects of healthy lifestyles. This course includes human sexuality. **Comments:** Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.

## Physical Education Courses

### **Aquatic Sports & Conditioning**

**Grade:** 10 - 12

**Prerequisite:** The ability to swim

**Description:** This class will include swimming instruction, aquatic sports, aquatic games, conditioning in and out of the pool, and aerobics. **Comments: Students will need to provide their own lock for a gym locker.**

Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.

**Course:** 083100

**Length:** 1 semester

**Credits:** 1, Physical Education

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### **Aquatic Sports & Conditioning 2**

**Grade:** 10 - 12

**Prerequisite:** Aquatics Sports & Conditioning; and the ability to swim

**Description:** This course will include advanced swimming strokes and skills, aquatic sports, advanced aquatic games, and conditioning in and out of the pool. **Comments: Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

**Course:** 083102

**Length:** 1 semester

**Credits:** 1, Physical Education

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### **Fitness Hike-Walk**

**Grade:** 11 - 12

**Course Requirement:** Students will need to provide their own transportation for field trips.

**Description:** This course will develop students' aerobic fitness thorough analysis and practice of walking and hiking at the appropriate intensity and duration. Pre and post-course fitness levels will be assessed. Self-monitoring of the appropriate individualized intensity, frequency and duration of walking will be stressed utilizing a training journal in conjunction with class participation. Emphasis will be placed on stretching, conditioning exercises, proper clothing, injury prevention, and proper hiking etiquette. **Comments: This class will include multiple off-campus field trips and may include additional fees. Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

**Course:** 084410

**Length:** 1 semester

**Credits:** 1, Physical Education

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### **Fitness Yoga 1**

**Grade:** 10 - 12

**Description:** This class is for athletes as well as non-athletes. It will include the following activities: yoga, Pilates, walking, hiking, low impact aerobics, and relaxation. **Comments: Yoga mats are provided; however, students may bring their own. Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

**Course:** 083015

**Length:** 1 semester

**Credits:** 1, Physical Education

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**Fitness Yoga 2****Grade:** 11 - 12**Prerequisite:** Fitness Yoga 1**Description:** Fitness Yoga 2 is a continuing course for those students who have already successfully completed Fitness Yoga 1. In this course, students will continue their yoga practice as an extension from the knowledge base gained through the curriculum of Fitness Yoga 1. The course will focus on the development of transitions, balance, core strength, use of mantra, and use of meditation practices to enhance one's yoga practice.**Comments:** Yoga mats are provided; however, students may bring their own. Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**Course:** 083016**Length:** 1 semester**Credits:** 1, Physical Education

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**Intro To P.E.****Grade:** 9 - 10**Description:** Students will assess personal fitness status in terms of cardiovascular endurance, muscular strength and endurance, and flexibility. Students will be introduced to various team and aquatic (swimming) (where facilities are available) activities on the introductory level. **Comments:** Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**Course:** 080000**Length:** 1 semester**Credits:** 1, Physical Education

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**Lifeguard Training****Grade:** 10 - 12**Prerequisite:** 15 years old, and PASS a swimming test**Fee:** \$55 (includes Red Cross fee)**Description:** Students must be at least 15 years old. There will be an entry-level swimming test. There will be a Red Cross fee for books that students will retain. Upon successful completion of the course, students will receive Red Cross certification in Lifeguard Training and CPR for the professional rescuer. **Comments:** Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**Course:** 082800**Length:** 1 semester**Credits:** 1, Physical Education

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**Lifelong Team Sports 1****Grade:** 10 - 12**Description:** The learner will demonstrate the fundamentals and basic skills in many of the following recreational activities: basketball, flag football, floor hockey, soccer, softball, team handball, and volleyball. The learner will participate cooperatively and ethically when in competitive physical activities. Conditioning and fitness through various activities will be required. **Comments:** Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**Course:** 083800**Length:** 1 semester**Credits:** 1, Physical Education

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**Lifelong Team Sports 2****Grade:** 11 - 12**Prerequisite:** Lifelong Team Sports 1

**Description:** This class will build on and include advanced concepts in many of the following recreational activities: basketball, flag football, floor hockey, soccer, softball, team handball, and volleyball. The learner will participate cooperatively and ethically when in competitive physical activities. Conditioning and fitness through various activities will be required. **Comments: Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

**Course:** 083805**Length:** 1 semester**Credits:** 1, Physical Education

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**Racquet Sports 1****Grade:** 10 - 12

**Description:** The student will demonstrate fundamentals of tennis, badminton, racquet ball, and pickleball. These activities will enhance eye/hand coordination, agility, quickness, flexibility, and mental strategies. Conditioning and fitness will be included through various game and aerobic activities. **Comments: Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

**Course:** 083525**Length:** 1 semester**Credits:** 1, Physical Education

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**Racquet Sports 2****Grade:** 11 - 12**Prerequisite:** Racquet Sports 1

**Description:** The student will demonstrate fundamentals of tennis, badminton, racquet ball, and pickleball. These activities will enhance eye/hand coordination, agility, quickness, flexibility, and mental strategies. Conditioning and fitness will be included through various game and aerobic activities. **Comments: This class may include off-campus field trips. Students will need to provide their own transportation for field trips as well as their own lock for a gym locker. Other sports using similar skills may also be included in each class.**

**Course:** 083530**Length:** 1 semester**Credits:** 1, Physical Education

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**Rocky Mountain High 1****Grade:** 11 – 12**Fee:** \$30**Course Requirement:** Students will need to provide their own transportation for field trips.

**Description:** This class offers different activities that are geared to enhance the student's self-confidence, social awareness, problem-solving, and leadership potential. The activities may include team-building initiatives, low and high ropes course elements, climbing, rappelling, belaying, and orienteering. Students may be required to keep a journal for the class. **Comments: This class will include multiple off-campus field trips with additional fees. Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

**Course:** 083600**Length:** 1 semester**Credits:** 1, Physical Education

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**Rocky Mountain High 2**

Grade: 11 - 12

Prerequisite: Rocky Mountain 1 and instructor approval

Fee: \$30

**Course Requirement:** Students will need to provide their own transportation for field trips.**Description:** This is an advanced class, which may cover group initiatives, advanced ropes course elements, intermediate and advanced climbing techniques, rappelling, orienteering, kayaking, snowshoeing, camping, backpacking, outdoor survival, leadership, and wilderness first aid. Students need to be highly motivated toward outdoor adventure activities and are strongly encouraged to attend each of the culminating field trips.**Comments:** This class will include multiple off-campus field trips with additional fees. Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.

Course: 083605

Length: 1 semester

Credits: 1, Physical Education

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**Rocky Mountain High Leadership**

Grade: 12

Prerequisite: Rocky Mountain 2, and instructor approval

**Course Requirement:** Students will need to provide their own transportation for field trips.**Description:** The learner will demonstrate the knowledge to set up and take down the ropes course and the climbing wall with the help of the teacher. The learner will demonstrate the ability to lead small groups in various activities under the supervision of the teacher. **Comments:** This class will include multiple off-campus field trips with additional fees. Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.

Course: 083610

Length: 1 semester

Credits: 1, Physical Education

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**Sports Training 1 R**

Grade: 10 - 12

Prerequisite: Strongly recommended for D20 Athletes or successful completion of Weights 1 or Women's Weights with teacher recommendation.

**Description:** This course will focus on developing the basic physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries, and gaining an appreciation for lifelong fitness. The course will emphasize improving total body strength and power, speed, agility, flexibility through basic free weights exercises, calisthenics, plyometrics, and teaching proper running mechanics.**Comments:** This class may include multiple off-campus field trips with additional fees. Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.

Course: 083265

Length: 1 semester

Credits: 1, Physical Education

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**Total Fitness**

Grade: 9 - 10

**Description:** This class will incorporate various types of fitness activities aimed at improving cardiovascular fitness, flexibility, and strength. Activities may include floor aerobics, kickboxing, Tae-Bo, running, hiking, walking, interval training, resistance training, Pilates, yoga, slide training, and biking. **Comments:** Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.

Course: 083205

Length: 1 semester

Credits: 1, Physical Education



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**Weights And Fitness 1****Grade:** 10 - 12**Course:** 083215**Length:** 1 semester**Credits:** 1, Physical Education

**Description:** This class will focus on activities to enhance physical fitness: strength, speed, and endurance. Students will gain an appreciation of exercise for life-long fitness. Strength training utilizing a weight program combined with supplemental lifts and exercises is the basis of the class. Running, plyometrics, agility, flexibility work, and speed development activities are utilized in the class. Knowledge of muscle groups and specific exercises to enhance muscular development are included. **Comments: Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

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**Women's Weights & Fitness****Grade:** 10 - 12**Course:** 083225**Length:** 1 semester**Credits:** 1, Physical Education

**Description:** This class will focus on activities to enhance physical fitness: strength, speed, and endurance. Students will gain an appreciation of exercise for life-long fitness. Strength training, utilizing a weights program combined with supplemental lifts and exercises, is the basis of the class. Running, plyometrics, agility, flexibility work, and speed development activities are utilized in the class. Knowledge of muscle groups and specific exercises to enhance muscular development are included. **Comments: Students will need to provide their own lock for a gym locker. Conditioning and fitness will be included through various aerobic activities. Other sports using similar skills may also be included in each class.**

## Science Department

Please see course descriptions for prerequisite courses.

**Graduation requirement:** 6 credits of Science

9 <sup>th</sup> – 10 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>	11 <sup>th</sup> – 12 <sup>th</sup>	
<b>Biology</b> Course: 132015 A&B  <b>Honors Biology*</b> Course: 132020 A&B	<b>Chemistry</b> Course: 133115 A&B  <b>Honors Chemistry*</b> Course: 133120 A&B  <b>Astronomy 1</b> Course: 134105  <b>Astronomy 2</b> Course: 134110	<b>Anatomy &amp; Physiology</b> Course: 132000 A&B  <b>Geology</b> Course: 134200 A&B  <b>Physics</b> Course: 133200 A&B  <b>Honors Physics*</b> Course: 133205 A&B  <b>Zoology 1</b> Course: 132300  <b>Zoology 2</b> Course: 132305	<b>AP Biology*</b> Course: 132025 A&B  <b>AP Chemistry*</b> Course: 133125 A&B  <b>AP Physics C*</b> Course: 133212 A&B  <b>AP Environmental Science*</b> Course: 132410 A&B

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**Biology** *N H*

Grade: 9 - 10

Course: 132015 A & B

Length: 1 year

Credits: 2, Science

**Description:** Biology provides crucial background in the life sciences arena. Topics covered include basic cell structure, function, and processes, genetics, microbiology, evolutionary concepts and trends, taxonomy of plants and animals, basic vertebrate and invertebrate biology, basic ecology, and human biology. This course focuses on the world around us through a lab component. **Comments: Not all topics listed will be covered.**

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**Honors Biology\*** *N H*

Grade: 9 - 10

Course: 132020 A & B

Length: 1 year

Credits: 2, Science

**Description:** Honors Biology provides crucial background in the life sciences arena. Honors Biology studies all topics included in Biology. Students are exposed to advanced biology topics such as advances in biotechnology, bioethics, problems of ecological systems, plant tissue culture, and/or microbiology. Students are expected to work in an independent manner and complete the significant laboratory and writing component of this course. Applications in this course are designed to strengthen abstract reasoning and critical-thinking skills.

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**Chemistry** *N H***Grade:** 10 - 12**Prerequisite:** Algebra 1

**Description:** Chemistry is the study of the properties, changes, and interactions of matter. Topics covered include principles of chemical change, chemical formulas, equations and their application, atomic theory, the Periodic Table, acids and bases, phases of matter, solutions, and thermodynamics. There is a significant laboratory component to this course as well as the ability to use mathematics to solve problems.

**Course:** 133115 A & B**Length:** 1 year**Credits:** 2, Science

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**Honors Chemistry\*** *N H***Grade:** 10 - 12**Prerequisite:** Algebra 1 with a B or higher

**Description:** Honors Chemistry is the study of the properties, changes, and interactions of matter. Topics covered include principles of chemical change, chemical formulas, equations and their application, atomic theory, the Periodic Table, acids and bases, phases of matter, solutions, and thermodynamics. Additionally, the topics of equilibrium, electrochemistry, and organic chemistry are also covered. There is a significant laboratory component to this course and emphasis is placed on problem-solving, analytical lab techniques, and scientific writing. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills.

**Comments:** This class is designed to facilitate a transition into AP Chemistry.

**Course:** 133120 A & B**Length:** 1 year**Credits:** 2, Science

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**Astronomy 1** *N H▶***Grade:** 10 - 12**Prerequisite:** Teacher recommendation**Fee:** \$10

**Description:** Astronomy 1 students study the matter of outer space. Topics include the history of the solar system, the forces of motion, physics of light, measurement of astronomical distances, planetary geology, and stellar life. Students learn to identify constellations by their patterns and the mythology that accompanies them. This course teaches chemical and physical processes using the cosmos for their application. Concepts are explored through hands-on lab experiences.

**Course:** 134105**Length:** 1 semester**Credits:** 1, Science

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**Astronomy 2** *N H▶***Grade:** 10 - 12**Prerequisite:** Teacher recommendation**Fee:** \$10

**Description:** Astronomy 2 builds on the topics covered in Astronomy 1. Students discover the methods, techniques and tools that have been used to generate current astrophysical knowledge. Topics explored include cosmology, stellar evolution, spectroscopy, astrobiology, and space exploration. Through research and laboratory activities, students discover how and why astronomers know what they know about the cosmos.

**Course:** 134110**Length:** 1 semester**Credits:** 1, Science

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**Anatomy & Physiology** *N H*Grade: 11 - 12 (10<sup>th</sup> grade with instructor approval)

Prerequisite: Biology or Honors Biology, Chemistry (preferred)

Fee: \$25

**Description:** Anatomy and Physiology students study the major systems of the human body. Topics covered include the basic anatomical make-up of the body's organs, as well as how these organs function. There is a significant laboratory component to this course, including microscopic work and dissection. Lectures, videos, and research will also be used.

Course: 132000 A &amp; B

Length: 1 year

Credits: 2, Science

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**Geology** *N H*

Grade: 11 - 12

**Description:** Geology is the study of the dynamics of our planet and the physical processes that occur on it. Topics covered include mineralogy, earth structure and composition, plate tectonics and geological time, geologic hazards, environmental problems, and societal issues we face by living on earth. Emphasis is placed on problem-solving and critical thinking skills. Projects, labs, and field trips are required. **Comments: Field trips are not required.**

Course: 134200 A &amp; B

Length: 1 year

Credits: 2, Science

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**Physics** *N H*

Grade: 11 - 12

Prerequisite: Algebra 1

**Description:** Physics is a lab-based course that explores the science of matter and energy and the interactions between the two. Topics include kinematics, Newton's 3 laws of motion, momentum, energy, the principles of waves, light, magnetism, electricity, optics, and celestial mechanics. The ability to use mathematics to solve experimental problems is emphasized. **Comments: This course is for everyone regardless of one's future career pursuits. Not all topics listed will be covered.**

Course: 133200 A &amp; B

Length: 1 year

Credits: 2, Science

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**Honors Physics\*** *N H*

Grade: 11 - 12

Prerequisite: Algebra 2 or Honors Algebra 2

**Description:** Honors Physics explores the science of matter and energy and the interactions between the two. Topics include kinematics, Newton's 3 Laws of Motion, momentum, energy, the principles of waves, light, magnetism, electricity, optics, celestial mechanics, thermodynamics, and nuclear physics. Students will apply mathematics through a variety of means such as lab skills, lab designs, and/or class presentations. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills. **Comments: Not all topics listed will be covered.**

Course: 133205 A &amp; B

Length: 1 year

Credits: 2, Science

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**Zoology 1** *N H*Grade: 11 - 12 (10<sup>th</sup> grade with instructor approval)

Prerequisite: Biology

Fee: \$15

**Description:** This course offers students an in-depth study of the Metazoa (Animal Kingdom). Students conduct a comprehensive study of each phylum, with an emphasis on comparing the physiological, structural, and behavioral characteristics. A lab component will involve observations of live specimens, preserved specimen dissections, and some ecological case studies. The research component of this course is designed so that the students will develop informational literacy skills and will learn to communicate information in a more effective manner.

Course: 132300

Length: 1 semester

Credits: 1, Science

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**Zoology 2** *N H***Grade:** 11 - 12 (10<sup>th</sup> grade with instructor approval)**Prerequisite:** Biology**Fee:** \$15

**Description:** This course offers students an opportunity to continue their study of Zoology, with an in-depth study of the Phylum Chordata. We will conduct a comprehensive study of each Class, with an emphasis on comparing the physiological, structural, and behavioral characteristics. These studies will involve observations of live animals, preserved specimen dissections, and ecological case studies. This course has a lab component. The individual research component of this course is designed to develop 21st Century Skills.

**Course:** 132305**Length:** 1 semester**Credits:** 1, Science

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**AP Biology\*** *N H***Grade:** 11 - 12**Prerequisite:** Biology or Honors Biology and Chemistry or Honors Chemistry strongly recommended.**Fee:** \$35 and approximately \$105 for the AP exam

**Description:** AP Biology meets the objectives of a college level general biology course. Topics covered include molecular biology, genetics, evolution, animals, and plants. Tests are the major form of evaluation. This course has a lab component. At the end of this course, students will be prepared for and expected to take the Advanced Placement exam for potential college credit.

**Course:** 132025 A & B**Length:** 1 year**Credits:** 3, Science

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**AP Chemistry\*** *N H***Grade:** 11 - 12**Prerequisite:** Honors Chemistry with a B or higher**Co-requisite:** Enrolled in or passed AP Pre-Calculus**Fee:** Approximately \$105 for the AP exam

**Description:** AP Chemistry is a problem-solving and lab-oriented class that meets the objectives of a college-level general chemistry course. This course expands and amplifies concepts learned in high school chemistry and covers additional advanced topics and topics relevant to our technological society. Topics covered include structure of matter, states of matter, reactions, descriptive chemistry, and laboratory exploration. At the end of this course, students will be prepared for and expected to take the Advanced Placement exam for potential college credit.

**Course:** 133125 A & B**Length:** 1 year**Credits:** 3, Science

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**AP Physics C\*** *N H***Grade:** 11 - 12**Co-requisite:** AP Calculus AB or BC**Prerequisite:** Honors Physics**Fee:** Approximately \$105 **each for the two** AP exams (Mechanics and Electricity & Magnetism) for this course

**Description:** AP Physics C meets the objectives of a college level general physics course. Topics covered include mechanics (kinematics, dynamics, statics, rotational mechanics, and the conservation laws) and electromagnetic theory (electrostatics, circuits, and magnetism). All necessary calculus techniques are introduced, however, enrollment in calculus is required as a pre-requisite or co-requisite. This course has a lab component. At the end of this course, students will be prepared to take the Advanced Placement exam for potential college credit.

**Course:** 133212 A & B**Length:** 1 year**Credits:** 3, Science

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**AP Environmental Science\*** *N H***Grade:** 11 - 12**Prerequisite:** Biology or Honors Biology and Chemistry**Fee:** Approximately \$105 for the AP exam**Description:** AP Environmental Science meets the objectives of a college level introductory course. Topics covered include interdependence of earth's systems (energy, matter, soils, air, water and organisms), human population dynamics (human fertility issues are covered), renewable and non-renewable resources, pollution, global changes (acid rain, greenhouse effect, ozone layer depletion), and environment and society choices for the future (conservation, preservation, remediation and sustainability). This course has a lab component.**Course:** 132410 A & B**Length:** 1 year**Credits:** 2, Science

## Social Studies Department

Please see course descriptions for prerequisite courses.

**Graduation requirement:** 6 credits of Social Studies

9 <sup>th</sup>	10 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>	11 <sup>th</sup> – 12 <sup>th</sup>	
<b>World Regional Geography</b> Course: 154000 A&B	<b>World History &amp; Geography</b> Course: 155905 A&B	<b>AP European History*</b> Course: 155000 A&B  <b>Economics</b> Course: 153000  <b>National History Research Seminar</b> Course: 159015	<b>US History &amp; Geography</b> Course: 155505 A&B  <b>AP Economics*</b> Course: 153010 A&B  <b>AP Psychology*</b> Course: 158010 A&B  <b>Semester Course Offerings</b>  <b>Psychology</b> Course: 158000  <b>Street Law</b> Course: 157125  <b>Comparative Religions</b> Course: 156600	<b>AP US History &amp; Geography</b> Course: 155525 A&B  <b>AP US Government &amp; Politics*</b> Course: 157116  <b>Sociology</b> Course: 151000  <b>Civics and Law</b> Course: 157105
9 <sup>th</sup> – 10 <sup>th</sup>				
<b>AP Human Geography*</b> Course: 154200 A&B				

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**US History & Geography** *N H*

Grade: 11 - 12

\*\*\*Will fulfill US History graduation requirement

**Description:** US History & Geography is a survey course of US History from Reconstruction to the present. The course is designed to develop an understanding of the birth and growth of the US to include people of varied backgrounds. Emphasis is placed on the cause and effect of relationships found throughout our nation's history and geographical development as well as relationships between history and politics and economics.

Course: 155505 A & B

Length: 1 year

Credits: 2, Social Studies

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**AP US History\*** *N H*

Grade: 11 - 12

\*\*\*Will fulfill US History graduation requirement

Fee: Approximately \$105 for the AP exam

**Description:** AP US History & Geography meets the objectives of a college level US history course and meets the US History graduation requirement. This course covers the colonial period through the twentieth century incorporating critical essay writing and the interpretation of primary historical evidence. Supplemental reading of documents, essays, and books are used. At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. **Comments: A minimal fee for a review book may apply. All students are expected to take the AP exam in the spring.**

Course: 155525 A & B

Length: 1 year

Credits: 2, Social Studies

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**Civics And Law** *N H*

Grade: 11 - 12

**\*\*\*Will fulfill Civics graduation requirement**

**Description:** Civics and Law provides a basic understanding of the design and operation of federal, state, and local governments. Relationships between the citizen and the government are explored, and the student develops an understanding of the significant role of the citizen in American democracy. The students become familiar with the American legal system and their rights and responsibilities as citizens.

Course: 157105

Length: 1 semester

Credits: 1, Social Studies

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**AP US Government And Politics\*** *N H*

Grade: 11 - 12

**\*\*\*Will fulfill Civics graduation requirement****Fee:** Approximately \$105 for the AP exam

**Description:** This Advanced Placement course provides students with an analytical perspective on government and politics in the United States. Along the way, students will learn how to gather data about political behavior and develop their own theoretical analysis of American politics. This course includes both the general concepts used to interpret U.S. politics and the analysis of specific examples. Students also explore the various institutions, groups, beliefs, and ideas that constitute U.S. politics. The equivalent of an introductory college-level political science course, AP U.S. Government and Politics prepares students for the AP Exam and for further study in political science, law, education, business, and history. This course also meets graduation requirements for Civics. At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. **Comments: All students are expected to take the AP exam in the spring.**

Course: 157116 A &amp; B

Length: 1 year

Credits: 2, Social Studies

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**World Regional Geography** *N H*

Grade: 9

**Description:** World Regional Geography develops a view of the world through the study of cultural and physical geography. Emphasis is placed on our natural environment, cultural regions, and geographic aspects of man's contemporary economic, social, and political conditions. Interrelationships of climate, vegetation, soils, landform, and environmental impacts are studied. Map reading, map interpretation, and the skills necessary to accomplish these tasks are studied.

Course: 154000 A &amp; B

Length: 1 year

Credits: 2, Social Studies

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**AP Human Geography\*** *N H*Grade: 9 - 10 (11<sup>th</sup> and 12<sup>th</sup> with instructor approval)**Fee:** Approximately \$105 for the AP exam**\*\*\*Will fulfill World History or another course covering holocaust and genocide studies graduation requirement (Beginning with graduating class of 2028)**

**Description:** This class is an advanced survey of college-level Human Geography, and it is designed to prepare students for the Advanced Placement test in May. Topics include population and migration, culture and language, religion and ethnicity, agriculture and rural land use, industrialization and economic development, and urban land use. There will be one mandatory field trip each semester, each with a small transportation fee. At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. **Comments: All students are expected to take the AP exam in the spring.**

Course: 154200 A &amp; B

Length: 1 year

Credits: 2, Social Studies



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**World History & Geography** *N H*

Grade: 10

**\*\*\*Will fulfill World History or another course covering holocaust and genocide studies graduation requirement (Beginning with graduating class of 2028)**

**Description:** This course examines the major developments of world history from the Renaissance to the present. Students will learn cause and effect relationships with an emphasis on political, economic, geographic, and social forces that shape the modern world.

Course: 155905 A &amp; B

Length: 1 year

Credits: 2, Social Studies

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**AP European History\*** *N H*

Grade: 10 – 12

**\*\*\*Will fulfill World History or another course covering holocaust and genocide studies graduation requirement (Beginning with graduating class of 2028)****Fee:** Approximately \$105 for the AP exam

**Description:** AP European History meets the objectives of a college level course in European history. European history from 1400 to 1989 is covered. Students should expect considerable amounts of outside reading combined with the development of interpretive skills and analytic oral discussion. Students will develop and understand the themes in European history and will be able to analyze historical evidence (both primary documents and secondary works). Through analytical writing, students will demonstrate course understanding. At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. **Comments: All students are expected to take the AP exam in the spring.**

Course: 155000 A &amp; B

Length: 1 year

Credits: 2, Social Studies

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**National History Research Seminar** *N H*

Grade: 10-12

**Description:** Guided by the topic selections of National History Day, students will develop and apply research strategies, historical thinking skills, and improve reading, writing, and communication proficiency.

Course: 159015

Length: 1 semester

Credits: 1, Social Studies

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**Comparative Religions** *H▶*

Grade: 11 - 12

**Description:** This course studies the religious traditions of Hinduism, Buddhism, Taoism, Judaism, Christianity, and Islam in a comparative manner. Students evaluate similarities and differences between these important belief systems, explore and understand the religious documents, traditions, and beliefs of these great world religions, and understand how they developed historically. Coursework includes readings of selected religious documents, class discussions, papers, and projects to guide the student to evaluate similarities and differences between these belief systems. **Comments: Student are encouraged to explore and understand the religious documents, traditions, and beliefs of these great world religions, and to understand how each develop historically.**

Course: 156600

Length: 1 semester

Credits: 1, Social Studies

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**Economics** *N H*  
Grade: 10 - 12

Course: 153000  
Length: 1 semester  
Credits: 1, Social Studies

**Description:** Economics studies the basic concepts of scarcity, opportunity cost, economic systems, and supply/demand. Topics covered include an understanding of the basic economic information distributed by mainstream media such as the unemployment rate, gross domestic product, inflation rate, monetary and fiscal policy, and how the economic decisions made by individuals, governments, and businesses impact members of society. **Comments:** This course will also cover basic personal finance topics such as the use of credit, financial risk assessment, investing options/management, and personal financial planning.

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**Psychology** *N H*  
Grade: 11 - 12

Course: 158000  
Length: 1 semester  
Credits: 1, Social Studies

**Description:** Psychology studies the basic psychological theories and how they are applied. Possible topics of this survey course include neurobiology, sensation and perception, development, learning, memory, disorders and treatment, and social psychology. Discussion is an integral part of this class and students are expected to share ideas and be respectful of others' beliefs and opinions.

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**Sociology** *N H*  
Grade: 11 - 12

Course: 151000  
Length: 1 semester  
Credits: 1, Social Studies

**Description:** Sociology studies the basic components of society. Topics covered include culture, conformity and adaptation, family, cultural diversity, social movements, racial and ethnic relations, and deviance and social control. Small and large group discussions are emphasized as are reading comprehension and writing skills.

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**Street Law** *N H▶*  
Grade: 11 - 12

Course: 157125  
Length: 1 semester  
Credits: 1, Social Studies

**Description:** Street Law provides practical information and problem-solving opportunities that allow students to better survive in our society. The curriculum includes case studies, role-plays, small group exercises and seminar-type class discussions. Special attention is paid to the U.S. Constitution as the supreme law of the land. Topics such as how the justice system works, the application of the Bill of Rights to daily life, criminal law, civil law, and family law are addressed. An emphasis is placed on Colorado law and its application.

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**AP Economics\*** *N H***Grade:** 11 - 12**Fee:** Approximately \$105 for the AP exam**Description:** AP Economics meets the objectives of a college level course in microeconomics and macroeconomics. Heavier emphasis is placed on macroeconomics. Topics covered include the major economic theories/models used by economists and national policy makers. At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. **Comments: All students are expected to take the AP exam in the spring.****Course:** 153010 A & B**Length:** 1 year**Credits:** 2, Social Studies

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**AP Psychology\*** *N H***Grade:** 11 - 12**Fee:** Approximately \$105 for the AP exam**Description:** AP Psychology meets the objectives of a college level course in psychology. In this introductory course into the study of human and animal behavior and mental processes, students are introduced to psychological facts, and principles and phenomena associated with the different areas of psychology. Topics covered include the biology of behavior, sensation and perception, motivation and emotion, states of consciousness, development, abnormal behavior, therapy approaches, personality, and social psychology.**Comments: All students are expected to take the AP exam in the spring.****Course:** 158010 A & B**Length:** 1 year**Credits:** 2, Social Studies

## Special Education Department

Please see course descriptions for prerequisite courses.

9<sup>th</sup> – 12<sup>th</sup>

### Academic Support

Course: 191265 A&B

### Life Academic

Course: 191060 A&B

### Living Skills English

Course: 090007 A&B

### Living Skills Math

Course: 090006 A&B

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### Academic Support

Grade: 9 - 12

Course: 191265 A & B

Length: 1 year

Credit: 1, Core Elective

**Description:** Students will be supported using specially designed instruction to build their skills in English Language Arts and math based on individual goals and objectives identified within each student's IEP. Students will receive both direct instruction and indirect support based on individual levels and needs. Students will learn organizational and test preparation skills to support them to be successful. Additionally, students will receive services for transition goals, executive functioning goals, and IEP advocacy.

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### Life Academic

Grade: 9 - 12

Course: 191060 A & B

Length: 1 year

Credit: 1, Unrestrictive Elective

**Description:** Students will focus on the development of social and emotional skills in order to be able to access and engage in learning. Topics include but are not limited to conflict resolution, peer relationships, rules and regulations, motivation, leadership and positive social interactions. Students will work on developing their social and emotional skills that will allow them to develop and strengthen their skills in problem solving, critical thinking, and stress management so that they can engage in the learning process.

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### Living Skills English

Grade: 9 - 12

Course: 090007 A & B

Length: 1 year

Credit: 1, English

**Description:** Living Skills English equips students with essential functional English skills for everyday life, emphasizing independence and decision-making. The course focuses on functional reading skills, such as understanding recipes, schedules, signs, and instructions, and written expression, including writing forms, grocery lists, and resumes with proper grammar, punctuation, and capitalization. Oral communication emphasizes answering WH-questions (who, what, where, when, why) to navigate daily conversations, while vocabulary development builds functional language related to topics like money, jobs, and forms. Students also develop life skills by reading and interpreting documents such as schedules, bills, and appointment cards, as well as filling out forms. Additionally, the course integrates technology, teaching students to use assistive tools for reading and writing in daily tasks. Instructional strategies include hands-on activities, real-life simulations, group projects, and technology integration, with assessment through practical applications, projects, quizzes, and class participation to ensure students can effectively use English in real-world situations.

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**Living Skills Math****Grade:** 9 - 12**Course:** 090006 A & B**Length:** 1 year**Credit:** 1, Math

**Description:** Living Skills Math is designed to equip students with essential functional math skills applicable in everyday life. This course emphasizes practical applications of mathematics to enhance students' independence and decision-making abilities. Develop financial literacy skills, including budgeting and managing expenses. Understand and apply measurement concepts, focusing on fractions and their use in cooking and other daily tasks. Explore geometric concepts by recognizing and classifying shapes in the real world. Build foundational algebra skills through problem-solving and equation creation. Interpret data using statistics, including reading and understanding graphs. The course will employ a variety of instructional strategies, including hands-on activities, real-life simulations, group projects, and technology integration to create an engaging and supportive learning environment. Students will be assessed through practical applications, projects, quizzes, and participation in class activities to ensure they can effectively use math in daily situations. This course aims to build confidence in students' math skills while preparing them for real-world challenges.

## Visual Arts Department

Please see course descriptions for prerequisite courses.

**Graduation requirement:** 1 Fine Arts credit (can be Visual Arts or Performing Arts)

9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>		11 <sup>th</sup> – 12 <sup>th</sup>	12 <sup>th</sup>
<b>Art 1</b> Course: 020000	<b>Art 2</b> Course: 020005	<b>Art 3</b> Course: 020010		
<b>Ceramics 1</b> Course: 023000				
<b>Ceramics 2</b> Course: 023005	<b>Ceramics 3</b> Course: 023010			
<b>Computer Graphic Design 1</b> Course: 026025	<b>Computer Graphic Design 2</b> Course: 026030	<b>Computer Graphic Design 3</b> Course: 026035	<b>Digital Photography 3</b> Course: 026060	
	<b>Digital Photography 1</b> Course: 026050	<b>Digital Photography 2</b> Course: 026055		<b>AP Studio Art 2D*</b> Course: 020040 A&B
<b>Jewelry Making</b> Course: 023100	<b>Jewelry Making 2</b> Course: 023105	<b>Jewelry Making 3</b> Course: 023110	<b>Honors Art*</b> Course: 020030	<b>AP Studio Arts 3D*</b> Course: 0200045 A&B
<b>Yearbook</b> Course: 054900 A&B			<b>AP Art History*</b> Course: 022012 A&B	<b>AP Studio Art Drawing Portfolio*</b> Course: 020050 A&B

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### Art 1 H▶

**Grade:** 9 - 12

**Fee:** \$30

**Description:** Students will receive instruction in the skills of basic drawing and painting. Students will explore basic techniques and subject matter. The media may include pencil, ink, charcoal, color pencil, printmaking, acrylic, watercolor, and tempera. **Comments:** The projects will reflect understanding and application of the Elements of Art.

**Course:** 020000

**Length:** 1 semester

**Credit:** 1, Fine Arts

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### Art 2 H▶

**Grade:** 9 - 12

**Prerequisite:** Art 1

**Fee:** \$30

**Description:** Students will receive instruction in the skills of intermediate drawing and painting. Students will expand their knowledge and application of drawing and painting techniques. The media may include pencil, ink, charcoal, color pencil, printmaking, acrylic, watercolors, tempera, pastels, sanguine and sepia, and conte crayon. **Comments:** Projects will reflect understanding and application to the Elements and Principles of Art. There will be an emphasis on creativity and originality. Students will critique and reflect upon their work.

**Course:** 020005

**Length:** 1 semester

**Credit:** 1, Fine Arts

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**Art 3 H ▶****Grade:** 10 - 12**Prerequisite:** Art 2**Fee:** \$30

**Description:** Students will receive instruction in the skills of advanced drawing and painting. Students will continue to develop personal style and complex problem-solving skills as evidenced in the development of their portfolio. **Comments: Students will be introduced to art history concepts and learn to evaluate and interpret the diversity of cultures and people through visual arts.**

**Course:** 020010**Length:** 1 semester**Credits:** 1, Fine Arts

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**Ceramics 1 H ▶****Grade:** 9 - 12**Fee:** \$30

**Description:** This course involves an introduction to the materials, techniques, design and equipment of hand-built ceramic art and an introduction to the potter's wheel. **Comments: An emphasis will be on development of basic skills, creativity, craftsmanship, aesthetics, and using clay as a medium of personal expression.**

**Course:** 023000**Length:** 1 semester**Credits:** 1, Fine Arts

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**Ceramics 2 H ▶****Grade:** 9 - 12**Prerequisite:** Ceramics 1**Fee:** \$30

**Description:** This course will include an in-depth study of materials, techniques, design, and equipment of hand-built ceramics plus intermediate wheel throwing. **Comments: An emphasis will be on creativity, design, and improved craftsmanship.**

**Course:** 023005**Length:** 1 semester**Credit:** 1, Fine Arts

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**Ceramics 3 H ▶****Grade:** 10 - 12**Prerequisite:** Ceramics 2**Fee:** \$35

**Description:** At advanced levels of ceramic studies, students will work with materials, techniques, and concepts to generate their own personal designs. Students will be required to research and develop their ideas in and out of the ceramic lab. Students will pursue new directions with approval and guidance from the instructor.

**Comments: An emphasis may be on the exploration of clay as a sculptural medium, independent study, and mastery of clay studio processes.**

**Course:** 023010**Length:** 1 semester**Credits:** 1, Fine Arts

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**Computer Graphic Design 1 H ▶****Grade:** 9 - 12**Fee:** \$25

**Description:** Students will learn to use the computer as a tool for creating their own work and for manipulating digitized images. Students will use Adobe applications, as well as digital imaging devices, to create a variety of 2D projects, which may include story illustrations, juxtapositions, and original works of art. The final project is to create a portfolio in hard copy and electronically, showcasing the student's skills. **Comments: This is a computer based class and students focus will utilize Illustrator and Photoshop.**

**Course:** 026025**Length:** 1 semester**Credits:** 1, Fine Arts

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**Computer Graphic Design 2** H ►

Grade: 10 - 12

Prerequisite: Computer Graphic Design 1

Fee: \$25

**Description:** Students will continue their study of digital fine art using industry standard software and applying their skills to create more complex original digital compositions. **Comments:** This is a computer based class and students focus will utilize Illustrator and Photoshop.

Course: 026030

Length: 1 semester

Credits: 1, Fine Arts

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**Computer Graphic Design 3** H ►

Grade: 10 - 12

Prerequisite: Computer Graphic Design 2

Fee: \$25

**Description:** Students will continue to make computer-generated works of art using industry standard software and will develop a personal style. **Comments:** This is a computer based class and students focus will utilize Illustrator and Photoshop.

Course: 026035

Length: 1 semester

Credits: 1, Fine Arts

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**Digital Photography 1** (CTE Course)

Grade: 10 - 12

Fee: \$30

**Description:** Students will explore about visual communication and learn how to plan and produce photographic compositions that demonstrate an understanding of such techniques as light, composition, color, and visual impact. Emphasis will be placed on technical aspects of photography and manually adjusting your camera settings accordingly. Nuanced discourse of photojournalism and ethics in photography is introduced.

**Comments:** Students are encouraged to use their own DSLR (Digital Single-Lens Reflex) Camera, and MAY NOT use phone cameras or point-and-shoot cameras. A 32GB SD card will also be required. This class incorporates computer-based systems.

Course: 026050

Length: 1 semester

Credits: 1, Fine Arts

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**Digital Photography 2** (CTE Course)

Grade: 10 - 12

Prerequisite: Digital Photography 1

Fee: \$30

**Description:** This course will expand on the themes covered in previous photography courses, with specific emphasis toward expanding technical fluency and personal articulation, using industry standard software. Students will explore studio lighting techniques, and on location shooting.

**Comments:** Students are encouraged to use their own DSLR (Digital Single-Lens Reflex) Camera, and MAY NOT use phone cameras or point-and-shoot cameras. A 32GB SD card will also be required. This class incorporates computer-based systems.

Course: 026055

Length: 1 semester

Credits: 1, Fine Arts



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**Digital Photography 3 (CTE Course)****Grades:** 11 - 12**Prerequisites:** Digital Photography 2**Fee:** \$30

**Description:** This course is designed to prepare students for professional and academic careers in advanced photography. The emphasis will be on fiber-based, archival printing for exhibition and portfolio. Considerable weight will be placed on an extended body of work, formally presented. Students will collaborate with local businesses to produce professional work for display, develop a personal business model, website, and other forms of professional presentation.

**Comments:** Students are encouraged to use their own DSLR (Digital Single-Lens Reflex) Camera, and MAY NOT use phone cameras or point-and-shoot cameras. A 32GB SD card will also be required. Notebook required. This class incorporates computer-based systems.

**Course:** 026060**Length:** 1 semester**Credits:** 1, Fine Arts

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**Jewelry Making****Grades:** 9 - 12**Fee:** \$30

**Description:** Students will explore jewelry making design using a variety of materials. Students will learn basic skills and techniques for working with various materials. Jewelry projects will challenge students to use creative thinking and problem-solving skills, element of art, and principles of design.

**Course:** 023100**Length:** 1 semester**Credits:** 1, Fine Arts

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**Jewelry Making 2****Grades:** 10 - 12**Prerequisite:** Jewelry Making**Fee:** \$35

**Description:** Students will increase proficiency using jewelry in 3-Dimensional Visual Arts. Students will challenge themselves to use increasingly more complex design elements, materials, and techniques.

**Course:** 023105**Length:** 1 semester**Credits:** 1, Fine Arts

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**Jewelry Making 3****Grades:** 10 - 12**Prerequisite:** Jewelry Making 2**Fee:** \$40

**Description:** Students will challenge themselves to use increasingly more complex design elements, materials, and techniques. Students will learn advanced skills used in jewelry design and artistic expression. Students will explore jewelry's social and historical context and significance.

**Course:** 023110**Length:** 1 semester**Credits:** 1, Fine Arts

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**Honors Art\* H ► R****Grade:** 11 - 12

**Prerequisite:** Level 3 or above art class on which you would like to expand, a portfolio containing at least six pieces showing a variety of work, and instructor approval

**Fee:** \$30

**Description:** This is an advanced problem-solving course for the exceptionally talented student having a strong desire to develop knowledge and skills in all areas of art. Emphasis will be placed on developing and producing high-quality artwork under the guidance of the instructor, as well as on challenge and risk-taking, creative problem solving, art history, and criticism. It is especially designed for those students interested in pursuing a visual arts career or college major.

**Course:** 020030**Length:** 1 semester**Credits:** 1, Fine Arts

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**AP Art History\* H ►****Grade:** 11 - 12**Fee:** \$105 for the AP exam

**Description:** Advanced Placement Art History is an academically rigorous college-level course examining the profound and chronologically extensive influence of visual art forms across eastern and western cultures. Topics of study range from Ancient Art through Art of the Early 20th Century. Across the scope of place and time, AP Art History focuses primarily on painting and drawing (40-50%), architecture (approx. 25%), sculpture (approx. 25%), and other media (5-10%). Students will learn to examine and assess works of art critically, and in aesthetic contexts. AP Art History will be taught in almost exclusively a lecture format, using projected images. Strategies for assessing students will follow the format of the AP examination which includes multiple-choice questions and narrative or comparative essay.

**Course:** 022012 A & B**Length:** 1 year**Credits:** 2, Fine Arts

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**AP Studio Art 2D\* H ►****Grade:** 12

**Prerequisite:** A minimum of three semesters of art with at least one at the Honors level, portfolio review, and permission of instructor

**Fee:** \$80 approximately \$105 for the AP exam

**Description:** This is a year-long, college-level class which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will work in the summer and the entire school year producing artwork for a portfolio. The AP 2D Design Portfolio involves integrative application of elements and principles through any 2D process or medium including but not limited to: graphic design, photography, digital imaging, illustration, fabric design, and digital imaging. Twenty-four to twenty-nine works will be completed for the AP exam portfolio. It is mandatory that the students work the entire school year producing artwork and submit a portfolio to the AP board in May.

**Course:** 020040 A & B**Length:** 1 year**Credits:** 2, Fine Arts

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**AP Studio Art 3D\* H ►****Grade:** 12

**Prerequisite:** Ceramics 1, Ceramics 2, Ceramics 3 at least one semester at the Honors level, portfolio review, and permission of instructor

**Fee:** \$80 and approximately \$105 for the AP exam

**Description:** This is a year-long, college-level class which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will work in the summer researching forms and textual surface treatments to be incorporated in their works. 3D work will be both functional and sculptural in nature. It is mandatory that the student work the entire school year producing artwork and submit a portfolio of approximately 25 pieces to the AP board in May.

**Course:** 020045 A & B**Length:** 1 year**Credits:** 2, Fine Arts

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**AP Studio Art Drawing Portfolio\* H▶****Grade:** 12**Prerequisite:** Art 1, Art 2, Art 3, and at least one semester of Honors level, or permission from the instructor following a portfolio review.**Course:** 020050 A & B**Length:** 1 year**Credits:** 2, Fine Arts**Fee:** \$80 and approximately \$105 for the AP exam

**Description:** This is a year-long, college-level class which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will work in the summer and the entire school year producing artwork for a portfolio. The AP Drawing Portfolio should demonstrate the student's mastery of drawing through a variety of approaches and media, with an emphasis on observational drawing. Value, line quality, composition, mark-making, and the illusion of depth will be addressed in the 24 to 29 works completed for the AP exam portfolio. It is mandatory that the student work the entire school year producing artwork and submit a portfolio to the AP board in May.

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**Yearbook R (CTE Course)****Grade:** 9 - 12**Prerequisite:** Application required**Course:** 054900 A & B**Length:** 1 year**Credits:** 2, Unrestricted Elective

**Description:** This class is responsible for the production of the school's yearbook. Students will learn various types of software involved in publishing as well as basic principles of journalism, publishing, and layout design.

**Comments:** Students will be responsible for taking pictures at school events and games, copy and caption writing, editing, proofreading, and meeting deadlines. Some work time outside of class is required, and the ability to meet deadlines is essential.

## World Language Department

Please see course descriptions for prerequisite courses.

**Graduation requirement:** 2 credits of World Language

**Note:** Many colleges and universities require 2-3 years of the same world language

9 <sup>th</sup> – 12 <sup>th</sup>			11 <sup>th</sup> – 12 <sup>th</sup>	
<b>French 1</b> Course: 062000 A&B	<b>French 2</b> Course: 062002 A&B	<b>French 3</b> Course: 062003 A&B	<b>Honors French 4*</b> Course: 062006 A&B	
<b>Latin 1</b> Course: 061000 A&B	<b>Latin 2</b> Course: 061005 A&B	<b>Latin 3</b> Course: 061010 A&B	<b>AP Latin*</b> Course: 061025 A&B	
<b>Spanish 1</b> Course: 062063 A&B	<b>Spanish 2</b> Course: 062067 A&B	<b>Spanish 3*</b> Course: 062071 A&B	<b>Honors Spanish 4*</b> Course: 062081 A&B	<b>AP Spanish Language*</b> Course: 062083 A&B

**Language, Level 1**    *N*    *H*

Grade: 9 - 12

Course: 062000 A & B (**French 1**)  
 061000 A & B (**Latin 1**)  
 062063 A & B (**Spanish 1**)

Length: 1 year

Credits: 2, World Language

**Description:** Students learn to communicate in chosen language using various methods. Simple conversational language and grammar related to personal interests and chosen language culture are used to draw connections and make comparisons. **Comments: Students will be provided opportunities to speak the chosen world language as much as possible as appropriate to their level of study.**

**Language Level 2**    *N*    *H*

Grade: 9 - 12

Course: 062002 A & B (**French 2**)  
 061005 A & B (**Latin 2**)  
 062067 A & B (**Spanish 2**)

Length: 1 year

Credits: 2, World Language

**Description:** Level 2 builds on skills and knowledge of level 1 with increasing emphasis on pronunciation, intonation, conventions, and using more specialized vocabulary. Students will engage in more complex conversations. Narratives will be used to further knowledge of structural patterns and word elements.

**Comments: Students will be provided opportunities to speak the chosen world language as much as possible as appropriate to their level of study.**

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**Language Level 3** *N H*

Grade: 9 - 12

Prerequisite: Language Level 2

Course: 062003 A & B (**French 3**)061010 A & B (**Latin 3**)062071 A & B (**Spanish 3**)

Length: 1 year

Credits: 2, World Language

**Description:** In level 3, students will initiate and engage in increasingly complex conversations, express thoughts using higher level vocabulary in speaking and in writing, and they will develop increased accuracy in grammar and written conventions. Students will communicate in a variety of cultural contexts, extracting information from authentic sources. **Comments: Students will be provided opportunities to speak the chosen world language as much as possible as appropriate to their level of study.**

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**Honors Language Level 4\*** *N H*

Grade: 11 - 12

Prerequisite: Language Level 3

Course: 062006 A & B (**French 4**)062081 A & B (**Spanish 4**)

Length: 1 year

Credits: 2, World Language

**Description:** In this class students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this class. **Comments: Students will be provided with opportunities to speak the chosen world language as much as possible as appropriate to their level of study.**

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**AP Latin\*** *N H*

Grade: 11 - 12

Fee: Approximately \$105 for the AP exam

**Description:** AP Latin is equivalent to an upper-intermediate level college course in Latin focusing on the in-depth study of selections from two of the greatest works in Latin literature: Vergil's *Aeneid* and Caesar's *Gallic War*. Students cultivate their understanding of classics through preparing and translating readings and considering themes in the context of ancient literature as they explore concepts like literary techniques, Roman values, war and empire, leadership, views of non-Romans, history and memory, and human beings and the gods.

Course: 061025 A &amp; B

Length: 1 year

Credits: 2, World Language

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**AP Spanish Language\*** *N H*

Grade: 11 - 12

Fee: Approximately \$105 for the AP exam

**Description:** The AP Spanish Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices, and perspectives.

Course: 062083 A &amp; B

Length: 1 year

Credits: 2, World Language

## Additional Courses at Liberty High School

Please see course descriptions for prerequisite courses.

### Application Courses

9 <sup>th</sup> – 12 <sup>th</sup>		10 <sup>th</sup> – 12 <sup>th</sup>
<b>Journalism</b> Course: 054305 A&B	<b>Electronic Media Productions 1</b> Course: 109050 A&B	<b>Electronic Media Productions 2</b> Course: 059015 A&B
<b>Student Government</b> Course: 191080 A&B	<b>Yearbook</b> Course: 054900 A&B	<b>Peer Partner</b> Course: 191035

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#### **Journalism** *H ▶ R*

Grade: 9 - 12

Prerequisite: Application Required

**Description:** Students will learn aspects of journalistic writing and production with emphasis on copy, design, and photography. Students will practice interviewing techniques, write headlines, and sub heads, and use the inverted pyramid format. Importance of editing and proofreading will be stressed.

Course: 054305 A & B

Length: 1 semester

Credits: 1, Core Elective

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#### **Electronic Media Productions 1** *H ▶*

Grade: 9 - 12

Prerequisite: Application Required

**Description:** This class is responsible for the creation of the school's electronic media and video productions. Students will create video shows for assemblies and school activities. Students will also study the art of short feature film production and learn digital editing techniques for student created short films. **Comments: Some work time outside of class is required, and the ability to meet deadlines is essential.**

Course: 109050 A & B

Length: 1 year

Credits: 2, Core Elective

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#### **Electronic Media Productions 2** *H ▶ R*

Grade: 10 - 12

Prerequisite: Electronic Media Productions 1  
Application Required

**Description:** Students will continue to expand their knowledge and use of techniques of storytelling, and audio/video production and post-production and distribution methods. **Comments: Some work time outside of class is required, and the ability to meet deadlines is essential.**

Course: 059015 A & B

Length: 1 year

Credits: 2, Core Elective

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#### **Student Government** *R*

Grade: 9 - 12

Prerequisite: Application Required

**Description:** Members will learn by application procedures of government and parliamentary procedure. They will focus on leadership skills necessary for effective leadership in a high school setting. They will make decisions relative to student body matters. They will have a primary role in student activities and student assemblies. Credit earned will be applied as elective credit. **Comments: Application process which includes, but is not limited to, a completed packet, interview, and student body or faculty elections.**

Course: 191080 A & B

Length: 1 year

Credits: 2, Unrestricted Elective

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**Yearbook** *R***Grade:** 9 - 12**Prerequisite:** Application required**Description:** This class is responsible for the production of the school's yearbook. Students will learn various types of software involved in publishing as well as basic principles of journalism, publishing, and layout design.**Comments:** Students will be responsible for taking pictures at school events and games, copy and caption writing, editing, proofreading, and meeting deadlines. Some work time outside of class is required, and the ability to meet deadlines is essential.**Course:** 054900 A & B**Length:** 1 year**Credits:** 2, Unrestricted Elective

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**Peer Partner** *R***Grade:** 10 - 12**Prerequisite:** Application and teacher recommendations required**Description:** Students will be required to do a final paper/project. Attendance is vital for this course. Students will support special education students in their classroom, in mainstream classes, or at a job site. In addition, peer coaches must be flexible and be ready for assignment changes during the semester. This is a great opportunity for students interested in a career in education. **Comments:** Students may be selected for either the SSN room or the Resource room.**Course:** 191035**Length:** 1 semester**Credits:** 1, Unrestricted Elective

## Other Courses

9 <sup>th</sup> – 12 <sup>th</sup>	10 <sup>th</sup> – 12 <sup>th</sup>	11 <sup>th</sup> – 12 <sup>th</sup>
<p style="text-align: center;"><b>Guided Study Hall</b> Course: 191110 A/B</p> <p style="text-align: center;"><b>Attendance Waiver</b> Course: 191260 A/B (AM) Course: 191255 A/B (PM)</p>	<p style="text-align: center;"><b>Peer Tutor</b> Course: 191007</p>	<p style="text-align: center;"><b>Library Assistant</b> Course: 191070</p> <p style="text-align: center;"><b>Student Assistant</b> Course: 191045 A/B</p> <p style="text-align: center;"><b>Teacher Assistant</b> Course: 191065 A/B</p>

**Guided Study Hall**    *R*

**Grade:** 9 - 12

**Course:** 191100 A/B

**Length:** 1 semester

**Credits:** 0.5, Unrestricted Elective

**Description:** Guided Study is an intensively monitored small venue study hall, in which the facilitator actively works with students in completing assignments, study for tests and quizzes, and completing projects. The guided study facilitator acts as a liaison between the intervention coordinator, teachers, students, and parents to ensure that grades and grade issues are communicated in a timely manner.

**Peer Tutor**    *R*

**Grade:** 10 - 12

**Prerequisite:** Application and teacher recommendations

**Description:** Students enrolled in this class will be assigned to guided study halls to work with the teacher to serve as a peer tutor. Students will work with teachers to provide tutoring and study skills for students. This course is designed for academically strong students who can support their peers in gaining a better understanding of various contents.

**Course:** 191007

**Length:** 1 semester

**Credits:** 1, Unrestricted Elective

**Library Assistant**    *R*

**Grade:** 11 - 12

**Prerequisite:** Librarian approval

**Description:** This program is based on a contract agreement designed to train students in the operation of the library. This will include the database Library Solutions, basic library and office responsibilities, and assisting the library staff as needed. The students will learn to operate fax and copy machines, shelve books, check-out materials, deliver materials, work with computers and audio-visual equipment, and assist all library users. Students will be expected to sign a contract for the skills and duties they will learn. They will also be expected to sign a Confidentiality Agreement prior to working in the library.

**Course:** 191070

**Length:** 1 semester

**Credits:** 1, Unrestricted Elective

**Student Assistant**    *R*

**Grade:** 11 - 12

**Prerequisite:** Administrative approval

**Description:** This program is designed to train students to aid students, faculty, and staff as well as give students experience in office and classroom duties. **Comment: Student assistant will be used in the following areas: Main Office and Student Services. Class is on a Pass/Fail basis; does not affect GPA.**

**Course:** 191045

**Length:** 1 semester

**Credits:** 0.5, Unrestricted Elective



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**Teacher Assistant** *R***Grade:** 11 - 12**Prerequisite:** Teacher and administrative approval**Description:** This program is designed to train students to aid students, faculty, and staff as well as give students experience in office and classroom duties. **Comments:** Teacher assistant will be used in teacher's classroom.**Class is on a Pass/Fail basis; does not affect GPA.****Course:** 191065 A/B**Length:** 1 semester**Credits:** 0.5, Unrestricted Elective

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**Attendance Waiver****Grade:** 9 - 12**Course:** 191260 A/B (Morning)**Course:** 191255 A/B (Afternoon)**Length:** 1 semester**Credits:** NONE

**Description:** An attendance waiver is only available to full-time Liberty High School students. Attendance waivers are not advisable for the college bound student, since the most competitive college applicants are those who have taken the most rigorous high school curriculum available to them. Student athletes should check NCAA eligibility requirements before submitting a request for an attendance waiver.

**Conditions for attendance waiver:** Student must not be on school grounds during the time of the attendance waiver unless prior arrangements have been made with the counselor or administrator. Student must provide his/her own transportation to and from school. Student is to verify, via transcript, that he/she is on track to meet graduation requirements. Only one attendance waiver may be granted per semester with the exception of second semester seniors who may request two attendance waivers. D20, LHS, its administration, and staff will NOT be responsible for a student's safety or well-being during the time of the attendance waiver. Student must be enrolled in a minimum of five credits for participation in athletics and activities. Attendance waivers carry NO CREDIT and do NOT count towards graduation or athletic eligibility. Attendance waivers are reported on transcripts. Approval of attendance waivers is solely at the discretion of Liberty High School administration. Parents and students assume all risks associated with attendance waivers, including District 20 graduation requirements, NCAA eligibility, and post-secondary education admission requirements.



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**Automotive Service Technology 1****Grade:** 11 - 12**Prerequisite:** None; Strongly Recommended: Algebra 1 & Geometry**Fee:** \$100

**Description:** In this first course of a two-year course sequence, students participate in real-world auto service training through maintenance, diagnosis, removal, and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training. **Comments: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.**

**Course:** 108310 A & B**Length:** 1 year**Credits:** 4, Core Elective

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**Automotive Service Technology 2****Grade:** 12**Prerequisite:** Automotive Service Technology 1 and instructor approval**Fee:** \$100

**Description:** In this second course of a two-year course sequence, students will continue to participate in real-world auto service training through maintenance, diagnosis, removal, and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training. **Comments: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.**

**Course:** 108315 A & B**Length:** 1 year**Credits:** 4, Core Elective

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**Building Construction Technology 1****Grades:** 11 - 12**Prerequisite:** None; Strongly Recommended: Algebra 1 & Geometry**Fees:** \$100

**Description:** In this first course of a two-year sequence, students will apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction with a focus on Pre-Apprentice Certification Training (PACT) in the following areas: (1) Building Trades, Safety, and First Aid; (2) Construction Math; (3) Tools & Construction Materials; and (4) Employability. Students will gain a foundation for entry-level employment or further schooling/training. **Comments: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.**

**Course:** 101010 A & B**Length:** 1 year**Credits:** 4, Core Elective

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**Building Construction Technology 2****Grades:** 12**Prerequisite:** Building Construction 1 and instructor approval**Fees:** \$100

**Description:** In this second course of a two-year sequence, students will continue to apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction with a focus on Pre-Apprentice Certification Training (PACT) in the following areas: (1) Building Trades, Safety, and First Aid; (2) Construction Math; (3) Tools & Construction Materials; and (4) Employability. Students will gain a foundation for entry-level employment or further schooling/training. **Comments: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course.**

**Course:** 101015 A & B**Length:** 1 year**Credits:** 4, Core Elective

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**Nursing Assistant****Grades:** 11 - 12**Prerequisite:** None; Strongly Recommend: Anatomy and Physiology

**Fee:** Students must pay for the background check (approx. \$75) and liability insurance (approx. \$25) before they can engage in clinicals. Student will also be responsible for the cost of the board exams (approx. \$150).

**Description:** In this course, students will prepare for the nurse aide certification exam (CNA) by expanding foundational healthcare skills and applying basic nursing theory to the practice of client care. Through lab-based simulations and clinical experiences, students will demonstrate nursing principles and competencies, restorative services, safety practices, and emergency care while they model professional skills.

**Comments: This is a set of college courses offered through Pikes Peak State College (PPSC) and taught by PPSC instructors. Students who are accepted must enroll at PPSC and grades posted on transcripts will apply to both PPSC and Academy District 20. This is year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students cannot begin clinicals and take the certifying exam until they reach the age of 16. Students must be 16 within 12 months of enrollment in the program.**

**Course:** 074100 A & B**Length:** 1 semester**Credits:** Core Elective

Plus college credit

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**Emergency Medical Technician****Grades:** 12**Prerequisites:** B or better in 11<sup>th</sup> grade English and Algebra 2 (both sems)

OR PSAT or SAT Score of 470 in English and 500 in Math;

Strongly recommended: Anatomy and Physiology

**Fee:** Students must pay for the background check (approx. \$75) and liability insurance (approx. \$25) before they can engage in clinicals. Student will also be responsible for the cost of the board exams (approx. \$150).

**Description:** In this course, students will prepare for the National Registry of Emergency Medical Technicians (EMT) exam by applying foundational healthcare skills to the practice of basic emergency pre-hospital client care. Through classroom simulations and clinical experiences, students will demonstrate an understanding of basic anatomy and psychology, patient assessment, communication strategies, and emergency medical interventions. **Comments: This is a set of college courses offered through Pikes Peak State College (PPSC) and taught by PPSC instructors. Students who are accepted must enroll at PPSC and grades posted on transcripts will apply to both PPSC and Academy District 20. This is year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students cannot begin clinicals or take the national exam until they reach the age of 18. Students must be 18 within 12 months of enrollment in the program.**

**Course:** 079000 A & B**Length:** 1 year**Credits:** Core Elective

Plus college credit

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**Cybersecurity 1\*****Grade:** 10 - 12**Prerequisite:** Application is required**Location of Course:** Pine Creek High School**Description:** Students will apply concepts of data security, system administration, network administration, and programming to the study of cybersecurity. Through critical thinking, investigation of real-world issues, and practical exercises, students will develop foundational cybersecurity skills. Students will adhere to and demonstrate computer security ethics.**Course:** 169050 A & B**Length:** 1 year**Credits:** 2, Core Elective

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**Cybersecurity 2\*****Grade:** 11 - 12 (10<sup>th</sup> grade with certain skills and prerequisites)**Prerequisite:** Cybersecurity 1**Location of Course:** Pine Creek High School**Description:** Students will apply advanced concepts of data security, system administration, network administration, and programming to prevent cybersecurity attacks and mitigate cybersecurity threats in a test lab environment.**Course:** 169051 A & B**Length:** 1 year**Credits:** 2, Core Elective

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**Honors Teacher Cadet 1\*****Grade:** 11 - 12**Fee:** \$15**Location:** Discovery Canyon Campus High School**Description:** 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 effective skills that will be helpful in college and beyond such as presentations, public speaking, writing, communication, and reasoning. This is a yearlong, sequential, honors course with college credit options. Students will make a difference with children as they "try out" teaching in a "mini student teaching experience."**Course:** 191130 A & B**Length:** 1 year**Credits:** 2, Core Elective

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**Honors Teacher Cadet 2\*****Grade:** 11 - 12**Fee:** \$15**Location:** Discovery Canyon Campus High School**Description:** This course is designed to provide additional field experience for those students who have completed the 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. Field time will include field contact hours working with a mentor plus 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.**Course:** 191131 A & B**Length:** 1 year**Credits:** 2, Core Elective



Air Academy High School hosts the D20 Air Force Junior ROTC curriculum. Each year offers a unique academic focus while emphasizing leadership and character development concentrating on enhancing good citizenship. **Comments: All cadets are required to wear the Air Force issued uniform and comply with dress and appearance standards. Males will be required to cut their hair. Cadets are required to perform community service as part of the leadership grade. Each course is a year-long commitment. Continued enrollment in JROTC year-to-year is contingent upon cadet performance at each previous level. Transfer students coming from other JROTC programs (i.e., Army, Navy) will be evaluated on a case-by-case basis.**

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**AFJROTC 1****Grade:** 9 - 12**Prerequisite:** Application and instructor approval**Fee:** \$40 cadet fee**Location:** Air Academy High School

**Description:** The first year of Aerospace Science is “A Journey into Aviation History.” In this course, students learn the origins of flight, early growth and formative years of the U.S., the progress of flight and use of airpower during World War I, the Golden Age of Aviation, World War II, Korean War, Vietnam, Desert Shield/Storm, Kosovo, etc. Students will study individual aviation pioneers such as Leonardo da Vinci, Orville and Wilbur Wright, Amelia Earhart, James Doolittle, Billy Mitchell, Carl Spatz, Chuck Yeager, etc. The Leadership Education portion of the course will also address some of the customs, traditions, and history of the military and will emphasize leadership, character development, and good citizenship. Drill (marching) is also offered as part of the Leadership Education phase. **Comments: First year cadets are required to perform four hours of community service per quarter.**

**Course:** 089100 A & B**Length:** 1 year**Credits:** 2, Core Elective

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**AFJROTC 2****Grade:** 10 - 12**Prerequisite:** AFJROTC 1 and instructor approval**Fee:** \$25 cadet fee**Location:** Air Academy High School

**Description:** The second year of Aerospace Science is “The Science of Flight.” In this course, students learn the fundamentals of flight, and they are exposed to weather and its effects on flight, human physiology of flight, basic aeronautics, flight power, aerospace power, basic navigation, and navigation instruments. Students will conduct research and deliver classroom presentations on aviation topics. The Leadership Education portion of the course will address communication, personal awareness, group dynamics, problem-solving, and will emphasize leadership, character development, and good citizenship. Drill (marching) is also offered as part of the Leadership Education phase. **Comments: Second year cadets are required to perform five hours of community service per quarter.**

**Course:** 089105 A & B**Length:** 1 year**Credits:** 2, Core Elective

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**AFJROTC 3****Grade:** 11 - 12**Prerequisite:** AFJROTC 2 and instructor approval**Fee:** \$25 cadet fee**Location:** Air Academy High School

**Description:** The third year of Aerospace Science is "The Exploration of Space." This course examines our earth, the moon and the planets, the latest advances in space technology, and continuing challenges of space and manned space flight. Issues critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, space probes, guidance, and control systems are explained. The course also covers the development of space stations and international laws for the use of and travel in space. The Leadership Education portion of the course covers life skills, career paths, financial planning, and college options. Leadership, character development, and good citizenship are emphasized throughout the course. Drill (marching) is also offered as part of the Leadership Education phase. **Comments: Third year cadets are required to perform eight hours of community service per quarter.**

**Course:** 089110 A & B**Length:** 1 year**Credits:** 2, Core Elective

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**AFJROTC 4****Grade:** 12**Prerequisite:** AFJROTC 3 and instructor approval**Fee:** \$25 cadet fee**Location:** Air Academy High School

**Description:** The fourth year of Aerospace Science is "Management of the Cadet Corps." This curriculum is designed to focus on the fundamentals of leadership and management. Attention will be given to four specific areas: management techniques, management decisions, management functions, and managing self and others. Each cadet will hold a position of leadership in the cadet group and be responsible for applying the techniques and principles learned in class. This course requires a significant investment in time and effort outside the classroom to make the cadet group run effectively and efficiently. The Leadership Education portion of the course covers principles of management, skills for planning and developing goals, managing time and stress, group decision making, and leadership issues and challenges. Drill (marching) is also offered as part of the Leadership Education phase. **Comments: Fourth year cadets are required to perform 12 hours of community service per quarter. Physical fitness training will make up 20% of the course, approximately one class session every other week.**

**Course:** 089115 A & B**Length:** 1 year**Credits:** 2, Unrestricted Elective

## Course Fees

Fees are to cover a portion of the cost of operating the course, consumable materials, and/or maintenance of special equipment.

**ALL AP Courses: \$105 for AP Exam**  
**(AP Physics C requires \$210 for both exams)**

<p>AP Studio Art 2D .....\$80</p> <p>AP Studio Art 3D .....\$80</p> <p>AP Studio Art Drawing Portfolio .....\$80</p> <p>Art 1.....\$30</p> <p>Art 2.....\$30</p> <p>Art 3.....\$30</p> <p>Ceramics 1 .....\$30</p> <p>Ceramics 2 .....\$30</p> <p>Ceramics 3 .....\$35</p> <p>Computer Graphic Design 1.....\$25</p> <p>Computer Graphic Design 2.....\$25</p> <p>Computer Graphic Design 3.....\$25</p> <p>Digital Photography 1.....\$30</p> <p>Digital Photography 2.....\$30</p> <p>Digital Photography 3.....\$30</p> <p>Honors Art.....\$30</p> <p>Jewelry Making 1.....\$30</p> <p>Jewelry Making 2.....\$35</p> <p>Jewelry Making 3.....\$40</p> <p>Accounting 1.....\$25</p> <p>Accounting 2.....\$25</p> <p>Business and Marketing 1 .....\$70</p> <p>Business and Marketing 2 .....\$70</p> <p>Business and Marketing 3 .....\$70</p> <p>Business and Marketing 4 .....\$70</p> <p>Woodworking Technology 1.....\$100</p> <p>Woodworking Technology 2 .....\$100</p>	<p>Beginning Guitar .....\$20 and \$35</p> <p>Chambers Singers .....\$20 and \$35</p> <p>Color Guard ..... \$600</p> <p>Concert Band.....\$20 and \$35</p> <p>Concert Band 2.....\$20 and \$35</p> <p>Explorations in Dance ..... \$35</p> <p>Explorations in Dance 2 ..... \$70</p> <p>Explorations in Dance 3 ..... \$70</p> <p>Explorations in Dance 4 ..... \$70</p> <p>Explorations in Dance 5 ..... \$70</p> <p>Intermediate Guitar .....\$20 and \$35</p> <p>Jazz Choir.....\$20 and \$35</p> <p>Marching Band..... \$600</p> <p>Stagecraft 1A..... \$35</p> <p>Stagecraft 1B..... \$35</p> <p>Stagecraft 2 ..... \$70</p> <p>Stagecraft 3 ..... \$70</p> <p>Stagecraft 4 ..... \$70</p> <p>Symphonic Band .....\$20 and \$35</p> <p>Percussion Techniques .....\$20 and \$35</p> <p>Tenor Bass Choir .....\$20 and \$35</p> <p>Treble Choir.....\$20 and \$35</p> <p>Treble Ensemble .....\$20 and \$35</p> <p>Wind Ensemble .....\$20 and \$35</p> <p>Lifeguard Training ..... \$55</p> <p>Rocky Mountain High 1 ..... \$30</p> <p>Rocky Mountain High 2 ..... \$30</p> <p>Anatomy and Physiology ..... \$25</p> <p>AP Biology..... \$35</p> <p>Astronomy 1..... \$10</p> <p>Astronomy 2..... \$10</p> <p>Zoology 1 ..... \$15</p> <p>Zoology 2 ..... \$15</p>
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**All fees are subject to change.**



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