

COURSE DESCRIPTION GUIDE

2021 – 2022

**Frederick High School
Frederick, Colorado**



FREDERICK
HIGH SCHOOL
CU SUCCEED PROGRAM

FREDERICK HIGH SCHOOL

OFFICE HOURS

7:00 AM - 3:30 PM

Main Office – Receptionist – Katie Clementson

303-833-3533

Attendance Secretary – Lili Arroyo

dial direct 303-774-2725

Athletic Secretary - Lucille Janssen

dial direct 303-774-2731

Principal's Secretary - Mary Goldsberry

303-774-2732

Main Office Fax

720-494-3887

Counseling Office Fax

303-774-2729

St. Vrain Valley School District

303-776-6200

ADMINISTRATION:

Principal - Brian Young

young_brian@svvsd.org

Assistant Principal - Doug Jackson

jackson_douglas@svvsd.org

Athletic Director/ Assistant Principal - Ty Gordon

gordon_ty@svvsd.org

Assistant Principal - Russell Fox

fox_russell@svvsd.org

Dean of Students - Jennifer Santos

santos_jennifer@svvsd.org

Registrar – Lori Hill

dial direct 303-774-2726

COUNSELORS: **Direct phone number 303-774-2726**

All grades A-E - Philip Winslow

winslow_philip@svvsd.org

All grades F-L - Carey Beneke

beneke_carey@svvsd.org

All grades M-R - Teresa Hytowitz

hytowitz_teresa@svvsd.org

All grades S-Z - Amanda Fitzgerald

fitzgerald_amanda@svvsd.org

P-TECH Counselor- Amanda Fitzgerald

fitzgerald_amanda@svvsd.org

Interventionist - Danielle Maida

maida_danielle@svvsd.org

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GENERAL INFORMATION

Mission Statement:

The Frederick High School Community creates and embodies a spirit of integrity, collaboration and acceptance. Our relationships foster a commitment to high expectations, rigor and achievement in all pursuits. Building on a foundation of trust, honor and compassion, we learn, lead and succeed.

This Course Description Book:

- Is a collection of all the courses and programs that are offered at Frederick High School.
- Provides descriptions of the courses offered at the Career Development Center and Innovation Center, which are also available to Frederick High School Students.
- Is designed as a guide for students and parents as they select classes for the next school year, as well as their program of study for the student's four years at FHS.
- Provides information about the curriculum and programs at FHS.
- Offers other important information concerning college requirements.

As you begin to select your courses, please keep the following information in mind:

- FHS has an alternating four period/block day. Each block is 90 minutes in length and each class meets every other day. Students are enrolled in up to eight classes per semester.
- A .5 credit is awarded after successful completion of each 18 weeks.
- Freshmen and sophomores should be enrolled in eight blocks, each semester, all year. Juniors and seniors should be enrolled in a minimum of six courses, each semester, all year.
- Three years of mathematics, Algebra I and above, are required for graduation.
- Students must complete a minimum of 24.5 credits to graduate from Frederick High school.

Grades and Grade Point Average:

The grading scale and point average used to compute grade point averages includes A=4, B=3, C=2, D=1, and F=0. Note that there is additional weighting in Honors and Advanced Placement courses (an additional 0.5 in Honors courses, an additional 1.0 in AP courses). *Please note that Front Range Community College courses, as well as **CU Succeed courses that are not also Advanced Placement, are not weighted.*** Parents can access their student's progress in each class through the Infinite Campus portal. For more information, please contact the school.

Valedictorian and Salutatorian

The Valedictorian will be the student with the highest rank in the graduating class, and will be invited to deliver the Valedictorian address at the graduation ceremony. The Salutatorian will be the second highest rank in the graduating class, and will be invited to deliver the Salutatorian address at the graduation ceremony. The rank-in-class will be determined by using all grades and weight adjustments mentioned in the "Grade Point Average" section description. Student ranking will be determined at the end of the third quarter of the senior year. All third quarter grades will be calculated as final semester grades and are included in the students' cumulative grade point average, to determine a current rank-in-class. The final rank-in-class will be determined at the end of the semester and will appear on final transcripts. Valedictorians and Salutatorians must maintain full-time academic status their senior year as defined by Board Policy, and twelve or more of their credits must have been earned at Frederick High.

Concurrent Enrollment Options: (College Now)

Students wishing to take courses at a local college/university for both high school and college credit are strongly encouraged to contact their counselor for information. If a student meets the established guidelines, the school district will pay tuition for successful completion of up to two approved courses for both the fall and/or spring semesters (not summer school). This option is available only to 11th and 12th grade students who have completed a minimum of 11.5 credits toward graduation and are under 20 years of age. These courses are not weighted. Please see section *Concurrent High school Enrollment Program*.

CU Succeed Courses:

Through a partnership with University of Colorado at Denver, students may enroll in CU Denver courses on the FHS campus. Courses are taught by Frederick High teachers who have received honorarium faculty appointments from the University of Colorado at Denver. CU Succeed Gold courses are select introductory courses from CU Denver and have the same content as on-campus courses, have the same quantity and quality of work, and are evaluated by the same standards. Students receive concurrent high school and college credit. The current tuition rate through the University of Colorado is \$77 per credit hour. Non - Advanced Placement CU Succeed courses are not weighted. Advanced Placement CU Succeed courses are weighted as described in the following section.

Advanced Placement (A.P.) Courses:

Frederick High School participates in the College Board's National Advanced Placement (A.P.) program. Currently, eighteen Advanced Placement courses are offered, and on completion of an A.P. Course, a student is prepared to take the A.P. Examination in May. Depending on the student's exam score and specific university policies, students may receive college credit. Students and parents are asked to complete an AP Contract, available in the counseling office and on the school website. Advanced Placement courses are weighted as follows: A=5.0, B=4.0, C=3.0, D=2.0, F=0. *Students who choose to enroll in Advanced Placement courses are expected to remain enrolled throughout the school year.*

Honors Courses:

Students may apply to enroll in Honors courses at Frederick High school. We encourage students to apply for these challenging and rigorous courses. The Honors application process is available on the school website. Available courses include Honors English 9 A and B, Advanced Placement Human Geography A and B, Biology Honors A and B, Chemistry Honors A and B, United States History Honors A and B, Geometry A and B, and Algebra 2 A and B. Honors courses will be weighted as follows: A=4.5, B=3.5, C=2.5, D=1.5, F=0.

Biomedical Science Program

Frederick High School is now accepting applications from freshmen for the Frederick High School Biomedical Science program, a four year course of study that creates college and career opportunities for students in the rapidly expanding field of biomedical science. The Biomedical Science Academy will prepare students for various careers and courses of study in the medical field. Students explore the roles of biomedical professionals by engaging in real-world cases, working collaboratively to understand and design solutions to the most pressing health challenges of today and the future.

P-TECH

Frederick High School offers a Warrior Tech program for select students. Students in P-TECH/WarriorTech are able to earn their High School Diploma concurrently with their Associate of General Studies from Aims Community College at no cost to the student. Students also have mentor partnerships with partner companies, summer internships, and first-in-line opportunities for interviews at partner companies. The PTECH program is a 5 year program with 4 and 6 year options for select students. P-TECH is an application only program offered to students who apply and gain admission during their 8th grade year and start the program in 9th grade.

Seal of Biliteracy

Beginning in 2020, the St. Vrain Valley School District will recognize students who have studied and attained proficiency or higher in English and at least one other language with the Seal of Biliteracy. This award, given at graduation, provides students with a competitive advantage in the employment market as well as increased opportunities for higher education.

Requirements

Demonstrate proficiency or higher in English by completing all of the English Language Arts required for graduation with an overall GPA of at least 3.0 or higher in the required ELA courses AND one of the requirements listed below:

- 470 or higher on SAT EBRW
- 3 or higher on AP English Language Exam
- 3 or higher on AP English Literature Exam
- 4 or higher on IB English Exam
- 100 level or higher on Accuplacer Basic Skills Assessment

Demonstrate proficiency or higher in a language other than English by achieving one of the following:

- 3 or higher on World Language AP Exam
- 4 or higher on World Language IB Exam
- Intermediate Mid on AAPPL (Arabic, German, Korean, Portuguese, Russian, Thai)
- If identified language exam is not available, students can submit a body of evidence demonstrating proficiency in each mode of communication for that language
- Successfully completing a four-year high school course of study in the world language and attaining an overall grade point average of at least 3.0 in the course of study
- The Seal of Biliteracy provides students with a competitive advantage in the employment market as well as increased opportunities for higher education by:

- Providing evidence of increased readiness for college and careers
- Improving opportunities for college admissions and scholarship
- Increased job opportunities - Between 2010-2015 job postings targeting bilingual candidates doubled
- Boosting salary potential - Knowing a second language can increase one's pay by 10-15 percent
- Enhancing connections with your language and culture as well as building knowledge and understanding of other cultures

Application Process

Students in grades K-8 are encouraged to access world language classes and maintain proficiency in native languages

8th grade students made aware of Seal of Biliteracy diploma through specific transition activities

9th and 10th grade students encouraged to participate in world language courses and maintain a high GPA in English language arts classes

11th grade students on track identified by high school counselors and encouraged to apply as seniors

12th grade students submit request to earn Seal of Biliteracy diploma and District Committee reviews qualifiers

12th grade students who qualify receive additional Seal of Biliteracy diploma and cords at graduation ceremony

Seal of Biliteracy Application

Key Dates - Senior Year

Prior to October 15 - Talk to your counselor to plan your pathway to the seal

December 3 - Applicant status with next steps for applications sent

February 1 - AAPPL testing window opens

December 14 - Writing exercises due for students eligible for Portfolio Review

March 8 - Speaking exercises due for students eligible for Portfolio Review

March 29 - AAPPL testing window closes

March - Mock AP Exams

May - AP Exams (schedule)

April - SAT Exam

April 16 - Final student status update

May - Districtwide celebration (date and location TBA)

For more information, please contact Oakely Schilling, Seal of Biliteracy Coordinator, at schilling_oakley@svvsd.org or (303) 702-7512.

Early Graduation

The Board of Education recognizes the value of a full high school program and emphasizes its dedication to academic excellence.

Therefore, the Board shall consider early graduation for students at the end of seven semesters only if they meet the following criteria:

1. Accrual of credits required by the Board for graduation.
2. No grades below a "C".
3. Attainment and/or personal considerations, which in the judgment of the high school principal and the superintendent or designee, are outstanding.
4. Must have obtained 20.5 credits by the end of the 7th semester.

Repeating Courses

If a student fails a core class required for graduation, it is expected that he/she repeats it through St. Vrain's eCredit program. **If a course is repeated, the original grade remains on the transcript.**

NCAA Athletic Requirements

A student wanting to enter a NCAA Division I or II institution directly out of high school should make an appointment to see their school counselor, athletic director, or school coach as soon as possible to go over the rules and regulations that are in place. Since the NCAA rules and regulations can change, it is advised that you check their website for the most up to date information.

| | Division I | Division II |
|---|------------|-------------|
| English | 4 years | 3 years |
| Math (Algebra 1 or higher) | 3 years | 2 years |
| Natural/Physical Science | 2 years | 2 years |
| Additional English, Math or Natural/Physical Science | 1 year | 3 years |
| Social Science | 2 years | 2 years |
| Additional Courses (any area above or Foreign Language) | 4 years | 4 years |

There are significant changes with students in the class of 2016. Students are strongly advised to meet with their counselor to discuss classes that are accepted by the NCAA and those that will not meet the NCAA requirements. Please go to www.eligibilitycenter.org for more information.

Registration Guidelines

Course offerings will be based on student requests, school enrollment, and other factors. Courses and multiple sections of courses will be offered if sufficient numbers of students enroll. Therefore, please make your selections carefully. You will be selecting classes for the entire school year.

Please follow these steps to ensure your enrollment in the proper classes:

1. Review high school graduation requirements.
2. Review college entrance requirements.
3. Review ICAP plans.
4. Review course offerings.
5. Read the course descriptions.
6. If you are an athlete, it is your responsibility to know and understand the eligibility requirements.
7. Follow the instructions on your registration form.

Collection of student fees

Many courses charge a class fee. These class fees are noted in the Course Description Book under the specific classes. If your student is on free/reduced lunch the fees will be adjusted.

ST. VRAIN VALLEY SCHOOL DISTRICT GRADUATION REQUIREMENTS

St. Vrain Valley Schools delivers high-quality, robust educational experiences for all students by providing rigorous and engaging courses and activities for successful postsecondary preparation.

Graduation Requirements

In 2007, the Colorado Legislature passed a bill requiring the development of state high school guidelines, and last year the Colorado State Board of Education approved the state graduation guidelines. Colorado school districts must begin to implement the revised local high school graduation guidelines to meet or exceed the state guidelines with the graduating Class 2021. New Graduation Requirements will be comprised of three components:

Credits and Coursework

Graduates will need to complete a total of 24.5 credits in grades 9-12 to graduate. Credits must include:

English (4)
Social Studies (3)
Personal Financial Literacy (0.5)
Mathematics (3)
Science (3)
Physical Education (2)
Practical Arts (0.5)
Fine Arts (0.5)
Health (0.5)
General Electives (7.5)

Graduation Capstone

Graduates will complete a graduation capstone that will consist of completion of the 0.5 Personal Financial Literacy credit and their ICAP

Individual Career and Academic Plan (ICAP)

Graduates will develop and successfully complete an Individual Career and Academic Plan (ICAP) through Naviance. A student's ICAP is developed through surveys and assessments that explore postsecondary college and career interests and goals. The following indicators will assist graduates in successful completion of their ICAP:

Self-Awareness
Career Awareness
Postsecondary Aspirations
Postsecondary Options
Environmental Expectations
Academic Planning
Employability Skills
Financial Literacy

More information and a downloadable checklist of graduation requirements can be found at <http://svvsd.org/guide-graduation>.

College Admissions

Students who plan to continue their formal education should keep in mind the following factors upon which college admission is generally based. College information can be found in the counseling office as well as financial aid and scholarship information.

- **Grade Point Average and Class Rank** Your high school record of achievement still serves as the best predictor of academic success in college. Grades are important. Your rank in class is determined from your cumulative grade point average. It is computed at the end of each semester.
- **Quality of Course Selection** Students must complete 4 years of English, 4 years of Mathematics, 3 years of lab based Science, 3 years of Social Studies, 1 year of World Language, and 2 years of Academic Electives (may be chosen from any above area, modern language, computer science, art, music, journalism, or drama) to meet the Colorado Commission of High Education admission standard for any four-year college or university in the state of Colorado. **However, students should consult the catalog of the college or university they are interested in attending to determine the exact requirements.**
- **College Admission Test** Colleges also request tests such as the Scholastic Aptitude Test (SAT). All Juniors should take the SAT in the spring and are welcome to retake it again at a later date to achieve a higher score if needed.
- **College Essay** An increasing number of colleges are requesting a college essay as part of the application process. You should have two prepared to be used upon request.
- **Letters of Recommendation** Many colleges request personal letter(s) of recommendation from counselors, teachers or individuals from the community. Be sure to give the person you are asking to do such letter some information about you and your activities and allow at least two weeks for the letter to be completed.
- **Co-curricular Activities** Participation in activities outside of the classroom are important. This could include volunteer work, student council, clubs, athletics, band/orchestra or choir activities, and national organization memberships. The quality of your involvement is more critical than the quantity.

RECOMMENDED COURSES

College and Career Preparation

9th Grade:

English 9 or Honors English 9
Algebra I, Geometry, or Algebra 2 - Traditional or Honors
Biology or Honors Biology
World History/Geography or Advanced Placement Human Geography
World Language
Core Physical Education
Health
Study Hall
Electives of interest

10th Grade:

English 10 or Advanced Placement Seminar
Geometry, Algebra 2, or Trig / Pre-Calculus
Chemistry or Honors Chemistry
US History or Advanced Placement US History
World Language
Personal Finance
Physical Education
Electives of interest

11th Grade:

English 11 or Advanced Placement Language and Composition
Algebra II, Trigonometry/Pre-Calculus, or Advanced Placement Calculus
AP Science (Biology, Chemistry, Physics or Environmental Science), Anatomy/Physiology, Geology, Astronomy, Forensics
U.S. Government or Advanced Placement U.S. Government
World Language
Other Advanced Placement courses as available

12th Grade:

English 12 or Advanced Placement English Literature and Composition
Trigonometry/Pre-Calculus, Advanced Placement Calculus A/B, B/C, Advanced Placement Statistics
AP Science (Biology, Chemistry, Physics or Environmental Science), Anatomy/Physiology, Geology/Astronomy, Forensics
Traditional or Advanced Placement Social Studies courses
World Language
Electives of interest
Other Advanced Placement courses as available

Higher Education Admission Requirements

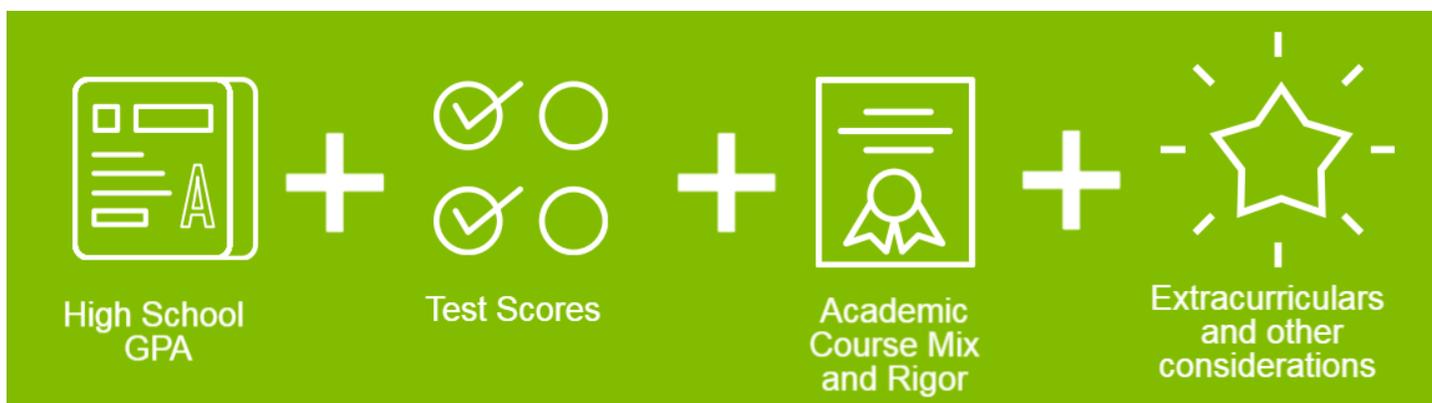
Students planning to attend a four-year college or university in Colorado will need to complete the following classes in order to fulfill the Higher Education Admission Requirements. Meeting the Higher Education Admissions Requirements does not guarantee admission to a four-year public institution. Colleges and universities may have additional requirements.

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

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

Colleges and universities establish their own entrance requirements; it is their discretion to determine what coursework meets the Higher Education Admission Requirements. Please make sure you research admission requirements for any school you are interested in. Foreign Language requirements vary across the state.

Your formula for success



As the above icons convey, Colorado public four-year colleges and universities consider a mix of factors in making freshman admission decisions:

- High School GPA
- Test Scores—either SAT and/or ACT
- Academic course mix and rigor (see below for more information)
- Extracurricular activities and other considerations (includes internships, work, sports, leadership, etc.)

High School GPA and Test Scores

Colleges/Universities share the average GPA and ACT/SAT ranges for students they have admitted. ([Click here to see these ranges for each public four-year institution.](#)) As an example, “50 percent of admitted students had between a 3.0 – 3.5 GPA, and 1040 – 1300 SAT.” The [online admission standards tool](#) provides the 50 percent mid-range.

These ranges are NOT admission requirements, but a guide to the admission standards at each institution. Students who have below the listed 50 percent ranges can still be competitive for admission if they are strong in other areas of their academic profile.

Guaranteed Transfer Admission:

Students can be considered under a transfer admission guarantee. Applicants who have completed an Associate of Arts (AA) or Associate of Science (AS) degree from a Colorado public two-year institution will be guaranteed admissions at all Colorado public baccalaureate awarding institutions, except Colorado School of Mines, provided the student meets the minimum transfer GPA standard, has completed all courses with a grade of C or better and a two-year institution is the last institution attended prior to transfer.

*Admissions to an institution does not guarantee enrollment in a specific degree program. Institutions may have controlled entry due either to space limitations or academic requirements. Students who complete an AA or AS degree concurrent with high school may qualify for guaranteed admissions to an institution, and subsequently may be held to additional criteria for determining students eligibility for specific degree programs. These students will be reported as first-time applicants and may be held to additional institutional expectations of first-time applicants.

*University of Colorado Boulder, University of Colorado Denver, and University of Colorado Colorado Springs require completion of the University of Colorado Minimum Academic Preparation Standards (MAPS) for guaranteed transfer admission. Each institution reserves the right to refuse a student based on past criminal or disciplinary action, according to institutional campus safety/conduct guidelines (refer to the institution for details)



CONCURRENT COLLEGE AND HIGH SCHOOL ENROLLMENT PROGRAM St. Vrain Valley School District

This program provides an opportunity for a high school junior or senior to earn both high school and college credit for a Front Range Community College course. The District will pay tuition for up to two guaranteed transfer courses per semester. (The courses must be pre-approved and successfully completed.) Designed to enrich the student’s educational experience, this program is not intended to duplicate the opportunities available at the high school.

See your counselor for assistance in course selection.

Suggestions for Success in Your First College Course

- Be aware of possible differences between high school and college expectations. Reading and writing assignments may be longer than those typically assigned in high school. Do not plan on extensions of time on due dates-deadlines are seldom negotiable.
- Be sure to work with your high school counselor to assure proper selection of courses, especially as they apply to graduation requirements.
- Admission to college classes is on a space available basis. If you cannot get into the course or section of the course you desire, have an alternate plan or contact the professor for special consideration.
- Attendance in college classes is important and is your responsibility. The college professor will not call your parents when you are absent and will seldom extend deadlines.
- The first class meeting is very important. You will typically be given a syllabus for the course and the professor's expectations-attendance, grading, etc.
- Language and science courses may require lab time in addition to class time.
- Check with the college you plan to attend after high school graduation to assure the transferability of each course.
- College professors vary widely in grading practices. In some classes your grade may consist of only a midterm and a final exam; in other classes, a large number of assignments may be graded.
- Be aware that you are establishing a college transcript with a GPA that follows you to every college you attend in the future.
- Be informed about the college's deadlines for dropping classes. If you drop after the college's deadline, you may receive an F and not be eligible for a tuition refund.

Commonly Asked Questions

1. How do I qualify?

A student must be a junior or senior (3rd or 4th year in High School) enrolled at a District high school, under the age of 21, and actively working towards graduation from high school.

2. How do I obtain approval?

Enrollment request form available in your counseling office. Please follow the specific instructions on the form. Submit the form to the counseling office on or before the assigned deadline.

You must complete a new request each semester.

3. Does taking a course on a college campus assure my admission to that college after I graduate from high school?

Enrollment in a course at a college is not the same as admission. You must follow the freshman admission procedure for each college.

4. What can I do if my request for high school credit is denied?

You may file a written appeal with the Board of Education through the Superintendent's Office. The appeal must be filed within ten days. The Board's decision is final.

5. How do I register at the college I choose?

You are responsible for contacting the college and following registration procedures required by that institution.

6. How are the college credits recorded on my high school transcript?

- One course of 3 or more semester hours equals at least .5 high school Carnegie units
- College grades are included in the computation of high school grade point average and, therefore, could affect class rank.
- College credits are not weighted in computing the grade point average.
- Please note that it is the student's responsibility to contact the prospective college(s) regarding transferability of individual courses.

7. Will these courses count towards high school athletic eligibility requirements?

Students must be enrolled in at least 2.5 credits per semester to be eligible for athletics.

Each 3.0 credit college course taken transfers as .5 high school credit. You should check with your high school athletic director to ensure eligibility.



CU at Frederick High: The CU Succeed Program

Frederick High School has established a partnership with the University of Colorado at Denver, which enables FHS students to complete challenging university course work and earn college credits through the University of Colorado while still in high school. Courses are taught by Frederick High teachers who have received honorarium faculty appointments from the University of Colorado.

CU Succeed Gold courses are select introductory courses from CU Denver and have the same content as on-campus courses, have the same quantity and quality of work, and are evaluated by the same high standards. These courses are taught here at Frederick and students receive concurrent high school and college credit.

CU Gold courses not only give Frederick High students the opportunity to earn college credits and gain exposure to college level coursework, they can significantly reduce time and expense. While tuition on the CU Denver campus is currently \$250 per credit hour (not to mention additional costs in fees and living expenses), the current rate for CU Gold courses is \$77 *per credit hours* (tuition rates set by UCD and are subject to change). We are thrilled by the opportunity to send confident kids off to college having already earned college credits. As you look through this handbook, look for the CU Succeed designation.

Biomedical Science at Frederick High School

The Biomedical Science Academy at Frederick High School will help prepare students for careers as biomedical professionals. Leveraging partnerships with local colleges and medical facilities, this four year program of study will help prepare students for careers and education including Pre Med university study, clinical medicine, public health, medical diagnostics and Biomedical Engineering. This program is relevant to students planning to engage at any career level in the field of medicine.

The introductory class, Principles of Biomedical Science, is open to the class of 2020-2021 (the freshman class of 2017-2018). There will be an enrollment cap of 30 students; a lottery system for registration will be used if necessary. An application process exists for this program; please contact the school for detailed information.

Frederick High School College Level Course Offerings

CU SUCCEED COURSES

| FHS Title | CU Denver Title(s) | College Credit | Duration | Weighted? |
|-----------------------------|-------------------------------------|----------------|----------|-----------|
| AP Chemistry | Gen Chem 1 / Gen Chem 2 / Labs | 9 - CU Denver | 3 Sem. | Yes |
| AP Physics | College Physics 1 / Lab | 5 - CU Denver | Yearlong | Yes |
| AP Environmental Science | Introduction Environmental Science | 4 - CU Denver | Yearlong | Yes |
| AP Psychology | Intro to Psych 1 / Intro to Psych 2 | 6 - CU Denver | Yearlong | Yes |
| AP Government | Intro Pol Science / Am Pol Systems | 6 - CU Denver | Yearlong | Yes |
| AP Music Theory | Intro Music Theory | 5 - CU Denver | Yearlong | Yes |
| AP Studio Art 2D Design | 2-Dimensional Design Foundations | 3 - CU Denver | Yearlong | Yes |
| CU Gold Intro Sociology | Introduction to Sociology | 3 - CU Denver | Semester | No |
| CU Gold Social Inequalities | Inequalities in a Social World | 3 - CU Denver | Semester | No |

Current CU Succeed Tuition: \$77 per credit hour

ADVANCED PLACEMENT COURSES

| FHS Title | College Credit | Duration | Weighted? |
|--------------------------|--------------------|-----------------|-----------|
| AP Human Geography | College Board Exam | Yearlong | Yes |
| AP Seminar | dependent | Yearlong | Yes |
| AP Research | College Board Exam | Yearlong | Yes |
| AP Biology | dependent | Three Semesters | Yes |
| AP Statistics | College Board Exam | Yearlong | Yes |
| AP Calculus | dependent | Yearlong | Yes |
| AP Lang & Composition | College Board Exam | Yearlong | Yes |
| AP Literature | dependent | Yearlong | Yes |
| AP United States History | College Board Exam | Yearlong | Yes |
| AP European History | dependent | Yearlong | Yes |
| AP Spanish Language | College Board Exam | Yearlong | Yes |
| AP Comp Sci Principles | dependent | Yearlong | Yes |
| | College Board Exam | | |
| | dependent | | |
| | College Board Exam | | |
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| | dependent | | |

Current College Board fee per exam: \$94 for core classes, \$142 for Seminar

COMMUNITY COLLEGE COURSES (ON FHS CAMPUS)

| FRCC Title | College Credit | Duration | Weighted? |
|---------------------------|----------------|----------|-----------|
| Introduction to Business | 3 Credits | Semester | No |
| Public Speaking | 3 Credits | Semester | No |
| Intro to Criminal Justice | 3 Credits | Semester | No |
| Personal Finance | 3 Credits | Semester | No |
| Intro to Sociology | 3 Credits | Semester | No |
| Social Media Marketing | 3 Credits | Semester | No |

Tuition reimbursed by St. Vrain Valley Schools for grades of C and higher

NOTES:

- “Weighted” equates to an additional 1.0 in GPA calculation (e.g. an “A” is worth 5 points instead of 4).
- College credits granted via College Board Exam vary by course, university, and score.
- All tuition and exam fees are subject to change.
- Three semester courses are offered every day one semester, and every other day the opposite semester.
- All course offerings are contingent upon sufficient requests and enrollment.

Frederick High School
Drop/Add Policy

Drops and adds for classes will be considered according to the following guidelines: Students must have parent permission

1. Any student whose schedule reflects an obvious error.
2. A change in a student's academic standing as a result of classes taken over the summer.
3. A lack of prerequisite for a course.

***Drops and adds may be considered to accommodate other reasonable requests to alter schedules. However, the ability to honor such requests will be limited, based on an effort to balance classes and balance teachers' overall assigned student loads to create an optimal learning environment.

***Any request for a schedule change must be accompanied by a form signed by parents. Such forms will be available in the counseling office.

NOTE: In order to maintain continuous athletic eligibility, a student is required to be enrolled in and successfully complete six credit-bearing classes each semester.

DROPPING AND ADDING CLASSES AFTER THE SCHOOL YEAR HAS BEGUN

1. A class may be added or dropped within the first ten (10) consecutive academic days of the semester without penalty. *It is highly recommended that students make all schedule changes before the semester begins.*
2. A student who wishes to drop a class after the first **10 consecutive academic days of the semester, regardless of the accrued grade, the student will have an F placed on their transcript.**
3. Requests for schedule changes in cases involving inappropriate placement of a student in an academic area, emergency situations, and exceptional cases will be considered by the administration on an individual basis throughout the semester. Students must complete an appeal process.

LA110A-LA110B: ENGLISH 9A/B

(LA Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Required

In Grade 9, instructional time should focus on four critical areas: (1) Oral Expression and Listening which requires effective preparation strategies and listening critically to comprehend a speaker's message; (2) Reading for All Purposes which requires analyzing and comparing increasingly complex literary elements in traditional and contemporary works of literature and informational texts; (3) Writing and Composition of literary, narrative, informational and persuasive texts using proper grammar, usage, and mechanics; (4) Research and Reasoning which requires collecting, evaluating, and analyzing a variety of informational materials for accuracy, relevance, and effectiveness. Students will also use effective problem-solving strategies that require high-quality reasoning. These concepts and associated skills are aligned with the Colorado Academic Standards for Language Arts, incorporating 21st century skills and post secondary and workforce readiness competencies.

LA113-LA113B: ENGLISH 9 HONORS A/B

(LA Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Prerequisite: Application required

This rigorous course is designed for students with high proficiency in English. Quantity and quality of work is greater than the general Language Arts 9 class. Emphasis is placed on a more comprehensive study of literature and writing. Students in this course will read and analyze short stories, poetry, drama, nonfiction and the novel. Students will be strongly encouraged to think critically and creatively both in discussion and compositions. Students will be expected to implement and demonstrate more sophisticated writing as they complete various assignments.

LA120A-LA120B: ENGLISH 10 A/B

(LA Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Required

In Grade 10, instructional time should focus on four critical areas: (1) carefully gathering and organizing information influences on audience; active listening is critical to operating in groups; (2) reading in order to develop new ideas; to understand literacy, persuasive and informational texts; and to determine literary and historical influences; (3) engaging an audience through stylistic devices, organizational patterns and effective revision/editing; (4) using valid and accurate research to answer questions, propose solutions, or share findings while employing reasoning skills. These concepts and associated skills are aligned with the Colorado Academic Standards for language arts, incorporating 21st century skills and post secondary and workforce readiness competencies.

LA505A-LA505B: AP SEMINAR A/B

(LA Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Fee: Current A.P. College Board exam fee

Prerequisite: none

In this foundation course, students develop and strengthen analytic and inquiry skills, exploring 2-4 relevant issues chosen by the student. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument and make logical, fact-based decisions. They will question, research, explore, pose solutions, develop arguments, collaborate and communicate using various media.

MS510A-MS510B: AP RESEARCH A/B

(ELECTIVE Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Fee: Current A.P. College Board exam fee

Prerequisite: AP Seminar

The second course in the AP Capstone experience allows students to design, plan and conduct a year-long research-based investigation of a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by understanding research methodology, employing ethical research practices, and accessing analyzing and synthesizing information to build, present and defend an argument.

LA130A-LA130B: ENGLISH 11A/B

(LA Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Required

In Grade 11, instructional time should focus on four critical areas: (1) Evaluating oral communication; (2) Critical, close reading in a variety of American literary and informational texts; (3) Developing a personal style of writing through revision and refinement; and (4) Pursuing self-designed research tasks. These concepts and associated skills are aligned with the Colorado Academic Standards for language arts, incorporating 21st century skills and postsecondary and workforce readiness competencies.

LA500A-LA500B: A.P. ENGLISH LANGUAGE AND COMPOSITION A/B 11-12**(LA Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee: \$10.00 class fee****Fee: Current A.P. College Board exam fee**

This course engages students in becoming skilled readers of a wide variety of prose and image based selections. These pieces, representing an assortment of periods, disciplines and rhetorical context, furnish students multiple opportunities to work with the rhetorical situation, examining the authors' purposes as well as the audiences and the subjects in the text. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. Course readings feature visual media, expository, analytical, personal and argumentative texts, from a variety of authors and historical contexts. Students write in a variety of modes for a variety of audiences developing ability to analyze and articulate how the resources of language operate in any given text. Performance expectations are appropriately high and the workload is challenging.

LA140A-LA140B: ENGLISH 12 A/B**(LA Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit**

This course is designed for students considering either higher education or immediate employment after graduation. Course emphasis is on strengthening communication skills. This is done through conventional English assignments, résumé preparation, business correspondence, employment communication and technical writing. Additionally, students will read and analyze novels, write essays, deliver presentations and prepare projects.

LA510A-LA510B: A.P. ENGLISH LITERATURE AND COMPOSITION A/B 12**(LA Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee: \$10.00 class fee****Fee: Current A.P. College Board exam fee and possible materials fee to be determined****Completion of AP Seminar and/or A.P. English Language and Composition is recommended**

A.P. Literature and Composition engages students in the careful reading and critical analysis of literature. The approach to close reading involves the experience of, the interpretation of, and the evaluation of literature. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. The goal of writing assignments is to increase students' ability to explain clearly, cogently, even elegantly, what they understand about literary works and why they interpret them as they do. Since reading and writing stimulate and support one another, they are taught together in order to underscore both their common and their distinctive elements. Please understand that the universal value of literary art that probes difficult and harsh life experiences may occasionally require study of controversial material. Students are expected to have a maturity level appropriate for full participation in a college-level course.

LA202: BEST SELLERS 9-12**(LA Credit)****18 weeks/1 semester/0.5 credit**

This course is designed for students who have a desire to read. Its intent is to enhance reading ability and develop interest, no matter what the student's individual reading level may be. The course allows for self-selection of materials in order to promote lifelong reading habits. Students will be expected to complete all reading and writing assignments.

LA216: MASS MEDIA FILM 10-12**(LA Credit)****18 weeks/1 semester/0.5 credit****Teacher permission for Sophomores**

This course is designed for students to explore the techniques and power of various forms of mass communication, including: movies and music. We will also discuss the role of advertising and media manipulation.

LA219: MYTHOLOGY 11-12**(LA Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This course will provide a study of the mythologies of ancient cultures as well as an analysis of how those ancient tales resonate in modern thought, literature and social issues. Assignments will include reading of myths of the Greeks and Romans, reading analysis of representative Greek literature, research projects, discussions and analysis of selected films. Student understanding and learning will be demonstrated through discussion, written assignments, projects and tests.

LA221: SCIENCE FICTION 11-12**(LA Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit****Requirement: Seniors or Juniors who have passed****English 9 & English 10****Teacher permission for Sophomores**

Students will discover the worlds of science fiction through reading short stories and novels, analyzing films, and writing in the sci-fi genre. Students will become familiar with the genres and cultural implications of science fiction.

LA217: MYSTERY LITERATURE/SUSPENSE 10-12**(LA Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This course is designed for students who are interested in detective and suspense fiction. The course will cover novels, short stories, plays and books on tape and film.

LA 207: CREATIVE WRITING 10-12**(LA Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This course is designed for students who wish to develop their writing skills by experimenting with writing fiction. Students will have an opportunity to write short stories, poetry, and drama. The focus will be on effective description, narration, symbolism, characterization, and imagery with emphasis on detailed language and precise vocabulary. Students will be expected to complete all reading and writing assignments in a timely and effective fashion, as well as to share their writing with their classmates

LA224: SHAKESPEARE 10-12**(LA Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This course entails a close examination of a limited number of Shakespeare's major plays, at least one from each of these three areas (tragedy, comedy, history). Additional plays and the sonnets will be examined as time permits. The course emphasizes Shakespeare's knowledge of human nature and his unique poetic and dramatic idiom. The course provides for various kinds of writing experience on a regular basis. This course includes a performance element, and students should expect rehearsal and performance obligations outside of the school day.

LA425A-425B: JOURNALISM**(LA Credit) (NCAA Approved)****36 weeks/2 semesters/ 1.0 credit**

This course produces the student newspaper, as well as all FHS print publications outside of yearbook, including the literary magazine, various Booster Club programs, play production programs and the school podcast.. Students will learn the basics of journalistic writing and photography, journalistic ethics, how to meet deadlines, how to interview, and the aesthetics of proper print and web layout and design.

**MA110A-MA110B: ALGEBRA I A/B****(Math Credit) (NCAA Approved)****Prerequisite: 8th Grade Math or Pre-Algebra**

Algebra 1 focuses on four critical areas: (1) using units and relationships between quantities; (2) reasoning with equations and expressions; (3) analyzing and using linear, exponential, and quadratic functions; and (4) interpreting and displaying data using descriptive statistics. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA115A-MA115B: GEOMETRY A/B**(Math Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Required: Scientific Calculator****Prerequisite: Algebra I**

Geometry focuses on five critical areas: (1) using coordinate geometry to connect geometric and algebraic relationships to develop concepts of proof; (2) applying the definition of congruence in terms of rigid transformations (translations, reflections, and rotations) and applying congruence shortcuts for triangles to prove properties of triangles and quadrilaterals; (3) proving properties of circles and using area and volume formulas in problem-solving situations; (4) applying the Pythagorean Theorem, right-triangle trigonometry, and properties of similar triangles to calculate indirect measurements; and (5) using conditional probabilities to explore events of chance. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA 116A-MA116B: HONORS GEOMETRY A/B**(Math Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Required: Scientific Calculator****1.0 Weighted Credit for 9th/10th Grade Only**

Geometry focuses on five critical areas in greater depth: (1) using coordinate geometry to connect geometric and algebraic relationships to develop concepts of proof; (2) applying the definition of congruence in terms of rigid transformations (translations, reflections, and rotations) and applying congruence shortcuts for triangles to prove properties of triangles and quadrilaterals; (3) proving properties of circles and using area and volume formulas in problem-solving situations; (4) applying the Pythagorean Theorem, right-triangle trigonometry, and properties of similar triangles to calculate indirect measurements; and (5) using conditional probabilities to explore events of chance. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA120A-MA120B: ALGEBRA 2 A/B**(Math Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Algebra I & Geometry****Required: Scientific Calculator;****Suggested: Graphing Calculator**

Algebra 2 focuses on three critical areas: (1) analyzing and using polynomial, rational, radical, exponential, logarithmic, and trigonometric functions; (2) modeling sequences and series with recursive and explicit functions; and (3) making statistical inferences from data. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies. Students in need of additional support are eligible to take this course as a two-year program. See your counselor or current math teacher for details.

MA121A-MA121B: HONORS ALGEBRA 2 A/B**(Math Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Algebra I & Geometry****Required: Scientific Calculator;****Suggested: Graphing Calculator****1.0 Weighted Credit for 9th/10th Grade Only**

Honors Algebra 2 focuses on three critical areas in greater depth: (1) analyzing and using polynomial, rational, radical, exponential, logarithmic, and trigonometric functions; (2) modeling sequences and series with recursive and explicit functions; and (3) making statistical inferences from data. Students also have the opportunity to study matrices to solve multivariable systems of equations, the Fundamental Theorem of Algebra, the binomial theorem, rational and radical functions, properties of logarithms, and conic sections.

MA170: FINITE MATH 11-12**(Math Credit) (NCAA Approved)****18 WEEKS/1 SEMESTER/0.5 CREDIT****Prerequisite: Algebra II**

Finite Math focuses on three critical areas: (1) sequences and series (extension from Algebra 2); (2) operations with matrices and determinants; and (3) operations with vectors. These concepts and associated skills exceed the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA125: STATISTICS 11-12**(Math Credit) (NCAA Approved)****18 WEEKS/1 SEMESTER/0.5 CREDIT****Prerequisite: Algebra II**

Statistics focuses on four critical areas: (1) data collection, experimental design, and descriptive statistics; (2) applying the rules of probability, conditional probability, and combinatorics; (3) discrete probability and normal distributions; and (4) correlation and regression. Students will explore concepts of statistics, probability, and data literacy through applications as a foundation for a variety of Science, Technology, Engineering, and Mathematics (STEM) pathways and for being an informed citizen.

MA127: TRIGONOMETRY 11-12**(Math Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit****Prerequisite: Algebra II****Required: Scientific Calculator;****Suggested: Graphing Calculator**

Trigonometry focuses on two critical areas: (1) trigonometric functions and (2) applications of trigonometry. These concepts and associated skills exceed the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA132: PRE-CALCULUS 11-12**(Math Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit****Prerequisite: Algebra II****Required: Scientific Calculator,****Suggested: Graphing Calculator**

Pre-calculus focuses on four critical areas: (1) the complex number system; (2) arithmetic with polynomials and rational expressions; (3) operations with functions; and (4) conic sections. These concepts and associated skills exceed the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA520A-M520B A.P. STATISTICS A/B 11-12**(Math Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Algebra 2****Required: Graphing Calculator**

Advanced Placement Statistics acquaints students with the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will frequently work on projects involving the hands-on gathering and analysis of real world data. Ideas and computations presented in this course have immediate links and connections with actual events. Computers and calculators will allow students to focus deeply on the concepts involved in statistics. This course is recommended for students who plan to major in college in the areas of science, mathematics, engineering, psychology, sociology, health science and business. This course prepares students for the Advanced Placement Examination in Statistics.

MA500A-MA500B: A.P. CALCULUS A/B 11-12**(Math Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Trigonometry/Pre-Calculus****Required: Scientific Calculator****Highly Recommended: Graphing Calculator**

This course is designed for college bound students. Topics include limits, differentiation and integration. Applications are a major focus of this course. Functions studied are: algebraic, rational, trigonometric, exponential, and hyperbolic and inverses.

MA510A-MA510B: A.P. CALCULUS B/C 11-12**(Math Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: A.P. Calculus A/B****Required: Scientific Calculator****Highly Recommended: Graphing Calculator**

AP Calculus is designed for students intending to study mathematics, engineering, or the hard sciences in college. Its intent is to prepare students for college level math classes. The course includes instantaneous rate of change, velocity and acceleration for polynomial, rational, algebraic, trigonometric, anti-differentials, methods of integration, and applications. Students will be expected to complete all daily assignments and perform satisfactorily on examinations. Emphasis is on preparation for the AP Exam.

A rectangular box with a light blue background containing the word "SCIENCE" in a bold, black, serif font.**SC120A-SC120B: BIOLOGY A/B****(Science Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit – Required****Fee: \$10**

Biology is a lab based course consisting of the following topics:

1-Introduction to the Nature of Science and Ecology; 2- Populations and Human Impact; 3 – Biochemistry; 4 – Membrane Structure and Function; 5 – Photosynthesis and Cellular Respiration; 6 0 DNA and Protein Synthesis; 7 – Cell Division; 8 – Genetic Disorders and Genetic Engineering; 9 – Evolution; 10 – Body Systems: Homeostasis and Disease. These concepts and associated skills are aligned with the Colorado Academic Standards for Life Science, incorporating 21st Century skills and post-secondary and workforce readiness competencies.

SC121A-SC121B: BIOLOGY HONORS A/B**(Science Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Application required****Fee: \$10**

The Honors Biology class is an academically rigorous laboratory science class designed for students who excel in science and are college bound. This course will require greater depth of understanding in comparative anatomy, with dissection mandatory, genetic, genetic manipulation and genetic calculations, evolutionary theory and man's role in the environment. In addition, students will design, conduct, evaluate and communicate about scientific investigations. Students will also be provided with opportunities for exploratory, open ended scientific investigations. Other areas of focus may be added due to current scientific research, or changes in standards provided by the district or state standards.

SC130A-SC130B: CHEMISTRY A/B 10-12**(Science Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Algebra I****Fee: \$10**

This lab based course will consist of a study of the following topics: (1) Matter; (2) Atomic Structure; (3) Periodicity and Bonding; (4) Chemical Formulas and Chemical Equations; (5) Moles; (6) Stoichiometry; (7) Solutions; (8) Acids and Bases; (9) Gaseous Behavior; and (10) Organic Chemistry. These concepts and associated skills are aligned with the Colorado Academic Standards for Physical Science, incorporating 21st century skills and postsecondary and workforce readiness competencies.

SC131A-SC131B: CHEMISTRY HONORS A/B 10**(Science Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Algebra I****Fee: \$10**

This lab based course will consist of a study of the following topics in greater depth: (1) Matter; (2) Atomic Structure; (3) Periodicity and Bonding; (4) Chemical Formulas and Chemical Equations; (5) Moles; (6) Stoichiometry; (7) Solutions; (8) Acids and Bases; (9) Gaseous Behavior; and (10) Organic Chemistry. These concepts and associated skills are aligned with the Colorado Academic Standards for Physical Science, incorporating 21st century skills and postsecondary and workforce readiness competencies.

SC140A-SC140B: PHYSICS A/B 11-12**(Science Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Algebra I and Geometry****Fee \$10**

This course is designed for the college-bound junior or senior who has an interest in science. Its intent is to give students an opportunity to develop and appreciate an understanding of how the universe functions. Concepts of motion, force, momentum, and energy are developed and explored as well as heat, sound and light. Regular classroom activities will include laboratory investigations as an integral part of this concept development and exploration.

SC240A-SC240B: ANATOMY AND PHYSIOLOGY**A/B 11-12****(Science Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Biology****Fee \$10**

This academically rigorous laboratory science course will build on concepts learned in biology and chemistry. It will focus specifically on human anatomy and physiology. Emphasis will also be placed on healthcare and veterinary careers. Through lecture, labs, and activities, students will learn how the structures (anatomy) of the human body fit their function (physiology) to maintain homeostasis of the organism and continue the species. All twelve human body systems will be included, as well as the types of tissue and cell chemistry.

SC201: ASTRONOMY 11-12**(Science Credit)****18 weeks/1 semester/0.5 credit****Prerequisite: Geometry****Fee: \$5**

This course introduces you to the composition and structure of the universe. Astronomy is the scientific study of the contents of the entire Universe. This course will provide the student with a study of the universe and the conditions, properties, and motions of bodies in space. The content includes, but is not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars. Night time viewing of the sky will be required during this course.

SC205: GEOLOGY 11-12**(Science Credit)****18 weeks/1 semester/0.5 credit****Fee: \$5**

An introductory study of geology, encompassing the Earth, the materials that constitute its makeup, the structure of those materials, and the processes acting on them. The goal is to understand geological principles and how humans affect geological processes. This course covers the fundamentals of geology: Rocks, minerals, geologic time, plate tectonics, earthquakes, volcanoes, erosion and deposition. The labs delve into the chemistry of minerals, how rocks form, geologic mapping with GPS, geology in the field, and other fundamental topics.

SC230: FORENSIC SCIENCE: LAB BASED 10-12**(Science Credit)****18 weeks/1 semester/0.5 credit****Fee: \$5****Prerequisite: Biology. Corequisite: Chemistry.**

Forensic Science is a laboratory-based science class designed for students who are interested in forensic science. The purpose of this course is for students to gain experience in the major investigative techniques currently used by forensic scientists and crime scene investigators, and to develop an understanding of the scientific concepts which serve as the basis for these techniques.

SC520A-SC520B-SC520C: A.P. CHEMISTRY A/B/C 11-12**A CU Succeed Course!****(Science Credit) (NCAA Approved)****36 weeks/3 semesters/1.5 credit****Prerequisite: Chemistry and Algebra II****Fee \$10**

This course is the equivalent of a first-year college chemistry course. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course contributes to the development of abilities to think clearly and to express ideas, orally and in writing, with clarity and logic. It stresses principles and concepts and their relationships to the descriptive chemistry stoichiometry, structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics and the concepts of thermodynamics will be studied. Credit may be earned at many colleges by successfully completing the A.P. exam, enabling students to fulfill a college science requirement and, if desired, continue into upper level college science courses.

SC510A-SC510B-SC510C: AP BIOLOGY A/B/C 11-12**(Science Credit) (NCAA Approved)****36 weeks/3 semesters/1.5 credit****Prerequisites: Biology A and B, Chemistry A and B****Fee: \$10**

This rigorous course provides students with a fundamental understanding of the eight major areas of study in biology. A.P. Biology is taught at the college level and therefore in much greater depth than Biology 1 and 2. Any student interested in a career in health sciences should take this course (college majors such as pre-med, pre-vet, physical therapy, etc.). 1st semester includes: chemistry of biology, cell structure and function energy transformations in biological systems and genetics. 2nd semester topics include: evolution, animal structure and function, plant structure and function, and ecology. Instruction includes analysis, synthesis and evaluation of information that is obtained from college texts, peer-reviewed research and laboratory work. The lab portion of the course is very extensive, and includes sophisticated equipment. Individual study and extended laboratory work are encouraged if not essential for success. Students are encouraged to take the National Advanced Placement Examination at the end of the school year.

SC532A-SC532B: A.P. PHYSICS A/B 11-12**A CU Succeed Course!****(Science Credit) (NCAA Approved)****36 weeks/2semesters/1.0 credits****Prerequisite: Algebra 2, Co-requisite Trigonometry/Pre-Calculus****Fee: \$10**

AP Physics corresponds to a college level non-calculus basic survey course that includes topics in mechanics, electricity and magnetism, fluid mechanics, thermal physics, waves and optics, and atomic and nuclear physics. The primary goal is to provide the student with the comprehensive overview of physics while using classroom lab work to reinforce the understanding of science and its methods.

SC500A-SC500B: A.P. ENVIRONMENTAL SCIENCE A/B 11-12**A CU Succeed Course!****(Science Credit) (NCAA Approved)****36 weeks/2semesters/1.0 credits****Prerequisite: Biology, Algebra 1****Fee: \$10**

This course will provide students with the scientific concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The preceding themes provide the foundation for this course. This course prepares students for the Environmental Science Advanced Placement Examination.

SC150A-SC150B: BIOMEDICAL FOUNDATIONS A/B**FHS Biomedical: Year One****(Elective Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee \$20**

This course integrates modules through the Medical department of Tufts University in Boston, MA that includes units on Infectious Disease, Metabolic Disease, Neurological Disease, and Cancer. This course brings up to date science behind health and disease and bridges the gap between biomedical scientists and the high school classroom. Students will learn to diagnose, treat, and prevent all forms of diseases in our world. Throughout this course students complete real world case studies, create projects, and design many forms of disease intervention and technology. Students will also explore career pathways in the biomedical science field

SC240A-SC240B: ANATOMY AND PHYSIOLOGY A/B**FHS Biomedical: Year Two****(Science Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee \$10**

This academically rigorous laboratory science course will build on concepts learned in biology and chemistry. It will focus specifically on human anatomy and physiology. Emphasis will also be placed on healthcare and veterinary careers. Through lecture, labs, and activities, students will learn how the structures (anatomy) of the human body fit their function (physiology) to maintain homeostasis of the organism and continue the species. All twelve human body systems will be included, as well as the types of tissue and cell chemistry.

PS985: CSU BZ 101 HUMANS AND ANIMALS

FHS Biomedical: Year Three, Semester One

(Elective Credit)

36 weeks/2 semesters/1.0 credit

Fee-\$20

Students delve into activities like designing a prosthetic arm as they follow the life of a fictitious family and investigate how to prevent, diagnose, and treat disease.

SC151: ANATOMICAL CASE STUDIES VR

FHS Biomedical: Year Three, Semester Two

(Elective Credit)

18 weeks/1 semester/0.5 credit

For FHS Biomedical Science Academy students. Students use the CSU virtual reality program into the classroom Bring in clinical studies and case trials to have students solve using the VR program.

TE125: BIOM 101 INTRODUCTION TO BIOMEDICAL ENGINEERING

FHS Biomedical: Year Four, Semester One

(Elective Credit)

18 weeks/1 semester/0.5 credit

The survey-based course through Colorado State University will expose students to how mechanical engineering, chemical/biological engineering, and electrical engineering principles can be applied to current biomedical challenges. The course will also introduce current research efforts at CSU, BME career opportunities, team dynamics, and accessing/reading academic literature - all of which will be valuable as the student progresses through their program of study. Students will also be able to go through the process of solving an engineering problem and presenting a product concept to various audiences at CSU.

SC420: BIOMEDICAL SCIENCE SENIOR CAPSTONE

FHS Biomedical: Year Four, Semester Two

(Elective Credit)

18 weeks/1 semester/0.5 credit

This course is a culmination of the 3.5 previous years of Biomedical Science Academy courses. Students will utilize their knowledge of their previous years to create a capstone based upon their future interests and career prospectus. Students will research, design, and solve real world medical issues. Students will present their info at the end of the semester in a formal poster presentation/Ted Talk.

SOCIAL STUDIES

SS110A-SS110B: WORLD GEOGRAPHY/HISTORY 9 A/B

(Social Studies Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Required

World Studies focuses on these eight critical areas: (1) review ancient cultures and civilizations; (2) comparing and contrasting World Religions; (3) examining Europe and the acquisition of global power; (4) investigating Latin America and how resistance to European power led to revolutions; (5) analyzing economic and political systems in Western Europe and Eurasia; (6) evaluating the effects of Imperialism, poverty and conflict in Africa; (7) the Middle East peace process and the global impacts of petroleum; (8) examining globalization challenges faced in Asia as well as the response to natural hazards. Through each of these units, students will learn about nations and their people through geography, environment, culture, history, and politics. These concepts and associated skills are aligned with the Colorado Academic Standards for social studies, incorporating 21st century skills and post secondary and workforce readiness competencies.

SS535A-SS535B: A.P. HUMAN GEOGRAPHY 9 A/B

(Social Studies Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Prerequisite: Application Required

Advanced Placement (AP) Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. This course caters to incoming students looking to further their experience with academic rigor within the Social Studies department. It is encouraged that students with honors level potential and/or experience take this course to develop skills to better serve them as upperclassmen and in their college careers. AP Human Geography is open to all grade levels and will provide an emphasis on organizational skills, study skills and preparation for the AP exam.

SS120A-SS120B: UNITED STATES HISTORY A/B 10**(Social Studies Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit – Required**

U. S. History focuses on three critical areas: (1) the use of historical method of inquiry to ask questions, evaluate primary and secondary sources, critically analyze and interpret data, and develop interpretations defended by evidence; (2) the understanding of key concepts of continuity and change, cause and effect, complexity, unity, and diversity over time; and (3) the appreciation of the significance of ideas as powerful forces throughout history. Its intent is to help the students gain an understanding of the major political, economic and social events that have shaped the nation. These concepts and associated skills are aligned with the Colorado Academic Standards for social studies, incorporating 21st century skills and postsecondary and workforce readiness competencies.

SS510A-SS510B: A.P. U.S. HISTORY A/B 10-12**(Social Studies Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee: \$10.00**

Advanced Placement American History is an intensive study of United States history designed for 10th-12th-grade students and is equivalent to an introductory college course. The class will cover the scope of America's history from the pre-Columbus era to the present day. Thus, the level of work, from college-level readings, primary source analysis, college-style essay writing, increased critical thinking, and historical thinking skills practice is elevated from a typical honors class. Students will also participate in a number of seminars, discussions, and projects as the course prepares them for the Advanced Placement United States History exam, in which history college credits can be attained with good scores. Any students with an interest in American History and a willingness to expand their skills and knowledge are welcome!

SS130A-SS130B: UNITED STATES GOVERNMENT/COLORADO GOVERNMENT B 11**(Social Studies Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit – Required**

In U.S. Government, instructional time should focus on four critical areas: (1) designing, analyzing and applying a financial plan based on short- and long-term financial goals; (2) analyzing strategic spending, saving, and investment options to achieve the objectives of diversification, liquidity, income, and growth (PFL); (3) researching, formulating positions, and engaging in appropriate civic participation to address local, state, or national issues or policies; and (4) describing purposes, origins, structures and limitations of government and (5) analyzing how public policy--domestic and foreign--is developed at all levels. These concepts and associated skills are aligned with the Colorado Academic Standards for social studies, incorporating 21st century skills and postsecondary and workforce readiness competencies.

SS505A-SS505B: A.P. U.S. GOVERNMENT & POLITICS A/B 11-12**A CU Succeed Course!****(Social Studies Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee: \$10.00**

A.P. U.S. Government and Politics is designed for the student who is capable of doing lower division college work. The A.P. U.S. Government and Politics class will address the following topics: 1-constitutional underpinnings of United States government, 2-political beliefs and behaviors, 3-political parties and interest groups, 4-the three branches of national government, 5-public policy making, and 6-civil liberties and civil rights. This course will prepare students for the Advanced Placement Test in United States Government and Politics and will fulfill the graduation requirement for U.S. Government.

SS220: PSYCHOLOGY 9-12**(Elective Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This course offers students an opportunity to investigate human behavior and mental processes. The basic course addresses topics and issues relevant to the high school students who want to know more about the following areas: History and research Methods, Stress and Health, States of Consciousness (sleep and dreams), intelligence, and Personality Perspectives. Weekly reading assignments from the text and various outside sources are required in addition to completing personal inventories.

SS230: SOCIAL PSYCHOLOGY 10-12**(Elective Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This is an elective course designed for the student interested in exploring psychology. Topics include: Personality, emotions, sleep and dreams, media impact on individual behavior and relationships and general psychological disturbances. Students will use a variety of social studies and communication skills such as role playing, group work, reading and writing. Verbal participation and presentation is required.

SS235 SOCIOLOGY 9-12**(Elective Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This class examines important social issues of our time as they are portrayed on radio, television, film, the internet, newspapers and magazines. Students will learn how to analyze the media's impact on our lives and how to apply that knowledge to sociological issues. Topics include: equality and the sports world; shock radio and politics; crime on TV and in reality; the internet and social changes; and the influence of film on public opinion. Assessments include multi-media presentations, survey interpretations, and tests, writing exercises, group productions and discussion. Textbook units, articles, and personal inventories are the primary materials used in this course.

SS200: CONTEMPORARY GLOBAL ISSUES 9--12**(Elective Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit**

This course is a social studies elective focusing on the area of political science. Students will study domestic issues in America and how our government is impacting and working with them. They will also look at our government's involvement with international issues. Students will use textbooks as well as other current events to explore the world of modern American politics.

SS520A-SS520B: A.P. EUROPEAN HISTORY 11-12**(Elective Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee: \$10.00**

This course covers European History from 1450, the High Middle ages and the Renaissance, to contemporary events. Using debates, trials, investigative reports and other learning approaches, students examine people and issues – intellectual, artistic, political, social and economic – which shape our world today. This course prepares students for the European History Advanced Placement Examination.

SS500: A.P. COMPARATIVE GOVERNMENT 11-12**A CU Succeed Course!****(Social Studies Credit) (NCAA Approved)****18 weeks/1 semester/0.5 credit****Fee: \$10.00**

AP Comparative Government introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students compare the effectiveness of approaches to many global issues by examining how different governments solve similar problems. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. College Course Equivalent AP Comparative Government and Politics is equivalent to a one-semester introductory college course in comparative government and politics. Prerequisites There are no prerequisites for AP Comparative Government and Politics. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.

SS525A-SS525B A.P. PSYCHOLOGY 11-12**A CU Succeed Course!****(Elective Credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Fee: \$10.00**

This course is recommended for students who excel in the social sciences, general academics, and are motivated to academic rigor. The purpose of A.P. Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students examine all five domains in psychology: History and Methods of Research; Human Development; Bio psychological; Cognitive; Clinical (Abnormal and Therapies); and Social Domain. Course evaluation is based on class participation, assessments and personal inventories, research, abstracts, and independent work. Additionally, students are expected to read material outside of class, participate in discussions, presentations, and evaluation of experiments. This course prepares students to take the Psychology Advanced Placement Examination.

PS330 CU GOLD INTRODUCTION TO SOCIOLOGY 11-12**A CU Succeed Course!****(Elective Credit) (NCAA Approved)****18 weeks/1 semesters/0.5 credit**

A survey course in which the main concepts that define the sociological perspective are presented, and a picture of society is provided by examining major social institutions and forms of social organization within society. GT: Course is approved by the Colorado Department of Higher Education for statewide guaranteed transfer, GT-SS3

PS332 CU GOLD INEQUALITIES IN A SOCIAL WORLD**A CU Succeed Course!****Prerequisite: PS330 CUG Sociology or SS235 Sociology****(Elective Credit) (NCAA Approved)****18 weeks/1 semesters/0.5 credit**

Introduces students to critical sociological perspectives on social inequality. Major sociological factors contributing to the production and reproduction of inequality in various social organizations and institutions are analyzed.

ELECTIVE COURSES

WORLD LANGUAGES

WL101A / WL101B: FRENCH 1A/1B 9-12

(Elective credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

This course is designed for students who desire an introduction to a second language and culture. Its intent is to expose students to the four basic language skills: listening, speaking, reading, and writing, with instructional emphasis on conversation. Students learn basic vocabulary words, sentence structure and grammar associated with speaking French which includes: weather, dates, time, numbers, food, parts of the body, colors, clothing, family, and travel. By the end of the year, students are able to ask and answer basic formulaic questions and communicate about themselves, their likes and dislikes.

WL102A / WL102B: FRENCH 2A/2B 9-12

(Elective credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Prerequisite: French 1

For students who have successfully completed French 1, this course reinforces the basic language skills and further develops the student's ability to communicate in a foreign language. Students are expected to know the 3 most common regular present tense verb endings and other grammatical structures. Students expand their knowledge of previous topics covered in French 1. Students are expected to communicate and participate in listening, speaking, reading and writing about life in a French-speaking country. Students build upon previous knowledge in order to expand their language skills to include past and future tenses. They will learn more about France and other French-speaking countries, as well as exposure to French cuisine.

WL103A / WL103B: FRENCH 3A/2B 9-12

(Elective credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

Prerequisite: French 2

This course is the refinement of the student's skills, especially in reading and public speaking in French. Students will continue to work on the five standards (Communication, Cultures, Connections, Comparisons, and Communities) through daily practice. The students will read short prose stories written by French authors. Emphasis is on using the target language as much as possible. Films and multimedia will be used to enhance student learning.

WL141A-141B: MANDARIN CHINESE 1A/1B 9 - 12

(Elective Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

This beginning course will introduce students to Chinese and focus on listening, speaking, and reading abilities through classroom activities, conversation, reading, story writing, role playing, singing, calligraphy, games, etc. Students will acquire the knowledge and skills to begin communicating in Mandarin Chinese. Students will also be introduced to Chinese culture through media presentations and discussions.

WL142A-142B: MANDARIN CHINESE 2A/1B 9 - 12

(Elective Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

This course will develop students' proficiency to a more advanced level. They will learn expanded topics through listening, speaking, and reading activities. Students will be expected to express themselves in a narrative form. The Chinese culture will be explored through internet sources.

WL143A-143B: MANDARIN CHINESE 3A/1B 9 - 12

(Elective Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

This course continues students' learning, expanding topics through various classroom activities based on the prior two years. Four skills are emphasized: listening, speaking, reading, and writing. These abilities are integrated to help students develop the Chinese language to a level of fluency. Students will be expected to become independent learners and explore related topics, contexts, conversations, culture, etc. through texts, internet, or other media.

WL144A-144B: MANDARIN CHINESE 4A/1B 9 - 12

(Elective Credit) (NCAA Approved)

36 weeks/2 semesters/1.0 credit

This course aims to further develop the students' proficiency in all skills, including listening, speaking, reading, and writing. Broader and deeper aspects of Chinese culture and modern life will be discussed. Business Chinese and college level materials will prepare students for the outside world.

WL151A-WL151B: SPANISH 1A/1B 9 - 12**(Elective credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit**

Open an exciting new chapter in your life as you learn to communicate in a whole new way. This course is designed to offer students an introduction to the Spanish language and its many cultures. Its intent is to expose students to the four basic language skills: listening, speaking, reading, and writing and to a culture different from their own. The course includes a presentation of grammar concepts, vocabulary, and culture—with instructional emphasis on conversation. Students will be expected to complete written and oral assignments and to participate in a positive manner in classroom activities. You must pass Spanish 1A to take Spanish 1B.

WL152A-WL152B: SPANISH 2A/2B 9 - 12**(Elective credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Spanish 1 or teacher recommendation**

This course is designed for students who have completed Spanish I and wish to continue their study of Spanish language and cultures. The course includes a review of material covered in the first year and the presentation of additional vocabulary, grammar structures, and cultural aspects. Students will be expected to complete all written and oral assignments and to participate in classroom activities. You must pass Spanish 2A to take Spanish 2B.

WL153A-WL153B: SPANISH 3A/3B 10 - 12**(Elective credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Spanish 2 or teacher recommendation.**

This course is designed for students who have completed Spanish I and II and wish for a more in-depth study of language and culture in Spanish. This course is designed to meet students' needs in a more individualized curriculum that includes regular written and oral assignments, projects, and exams. Students will review level two materials and then learn additional vocabulary, expressions, and culture. Students will be expected to attend daily and complete assignments. You must pass Spanish 3A to take Spanish 3B.

WL510A-WL510B: A.P. SPANISH A/B 11-12**(Elective credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Spanish 3**

This course provides students interested in the Spanish language with a wide variety of opportunities to develop advanced Spanish language skills. Students are exposed to the literature, history, and culture of the Spanish-speaking world, and emphasis is placed on developing proficiency in self-expression, communication, and critical thinking. Students will read a variety of short works or literary excerpts, listen to recorded stories, participate in discussions, and perform different kinds of writing tasks. This course prepares students to take the Spanish Language Advanced Placement Examination.

WL156A-WL156B: SPANISH FOR SPANISH SPEAKERS**(Elective credit) (NCAA Approved)****36 weeks/2 semesters/1.0 credit****Prerequisite: Spanish speaking mastery**

Spanish for Spanish Speakers is a course for students who speak Spanish at home or for those who have spoken Spanish growing up. This course will explore grammatical points not explicitly taught when speaking at home, as well as dive into hispanophone literature to gain a cultural understanding of the Spanish speaking world. Assignments will include research, projects, and Spanish novel and film studies. This course is designed for students who speak Spanish at home and have a strong mastery of the language. It is not necessary to be able to write in Spanish, as we will focus on that throughout the year. Students are recommended to take a placement test to ensure accuracy of placement.

BUSINESS AND COMPUTER SCIENCE

CTE 9051: INTRODUCTION TO BUSINESS 9 - 12**(Practical Art Credit)****18 weeks/1 semester/0.5 credit**

Students will learn basic business principles, business economics, personal and business finance, consumer credit and banking, business law, entrepreneurship, management and marketing. This course will provide a broad foundation on which to build as students move into other business courses as well as practical business knowledge that can be applied to students' roles as employees, consumers, and citizens. Participation in either Future Business Leaders of America (FBLA) and/or DECA is required. Students who participate in FBLA and/or DECA learn valuable leadership and social skills.

CTE 9052: PERSONAL FINANCE 10 - 12

(Social Studies Credit)

18 weeks/1 semester/0.5 credit

Personal Finance is a course designed to give students the skills they will need to take control of their finances. The transition into “post-high school” life will bring many changes. In Personal Finance, you will learn how minimize the stress caused by making financial mistakes. You will also learn strategies that will help you to achieve your dreams and retire in style. Students will study important concepts including; finding a job, getting an apartment, managing college finances, buying a car, checking accounts, getting and using credit, online transactions, filing taxes, investing in the stock market, buying a house, insurance, and much more. Complementary courses include; Economics, Marketing 1 & 2 and Starting Your Own Business. This course is recommended for all students regardless of their post high school plans.

CTE 9001: ACCOUNTING 1 10 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

This one semester course introduces the basic elements and concepts of accounting. With emphasis on the procedures used for maintaining journals, ledgers, other related records, and for the completion of end-of-period reports. This course will cover the accounting cycle for a sole proprietorship.

CTE 9072: MARKETING 1 11 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Prerequisite: Introduction to Business

Marketing is a one semester comprehensive introductory course in the study of economic systems, advertising, selling, and entrepreneurship. Emphasis is placed on performing, evaluating and presenting marketing research, the use of computers in advertising and the development of management skills. Students also study important general business principles including: the principles of economics, effective leadership strategies and the development of quality communication skills. Successful completion of this course includes the development of a comprehensive marketing plan for an existing or imaginary product, participation in competitive simulations and leadership opportunities through student-run organizations.

CTE 9064: PRINCIPLES OF MANAGEMENT A/B 11 - 12

(Practical Art Credit)

36 weeks/2 semesters/1.0 credit

Prerequisite: Introduction to Business

This course focuses on the development of the leadership and interpersonal skills necessary to be successful in managing employees. Areas of study include: recruiting, screening, training, motivating, and developing benefits packages for employees. Emphasis is placed on the development of communication skills necessary for success in the business world. This course is recommended for students who plan to study business in college and those interested in a career in management.

CTE 9999: CTE INTERNSHIP

(Practical Art Credit)

18 weeks/2 semesters/0.5

Internships are on or off-campus work-based learning activities designed to provide students with opportunities to make connections between the theory and practice of study and the practical application of that study in a professional work environment. Internships offer the opportunity to “try out” a career while gaining relevant experience and professional connections. Internships are completed under the guidance of an on-site supervisor (off campus) and school district personnel, who in combination with the student will create a framework for learning and reflection. Internships may be paid or unpaid. For every 60 hours of internship, students will be earning a .5 credit.

COMPUTER SCIENCE

CTE 105A-CTE105B: COMPUTER SCIENCE A/B 9-12

(Practical Art Credit)

36 weeks / 2 semesters / 1.0 credit

This is a two semester course intended to provide students with exposure to various information technology occupations and pathways. During the Fall semester, the course will explore very relevant IT disciplines such as Networking Systems, Programming, Web Design, and Cybersecurity. During the Spring semester, the course will assume a more focused exploration of the Coding Pathway to teach students the basics of computer programming. An emphasis is placed on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications.

CTE 9018: INTRODUCTION TO PC APPLICATIONS 9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

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

CTE 83220: INTRODUCTION TO ARTIFICIAL INTELLIGENCE 9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Artificial Intelligence is a rapidly evolving field that is quickly transforming our society. This introductory class will explore this new and growing field by exploring the question of what intelligence is and how people and machines can learn; the importance of data to AI; the use of hardware to create a Smart environment; and the ethics challenges we face in an increasingly connected world. Students will have the chance to try out various cutting-edge technologies, ranging from IBM's Watson (Machine Learning) to Misty and NAO robots. Some experience with programming and/or robotics is helpful, but not required.

CTE 510A-CTE510B: A.P. COMPUTER SCIENCE PRINCIPLES 10-12

(Practical Art Credit)

36 weeks / 2 semesters / 1.0 credit

Prerequisite: Intro to Programming or Computer Science

FEE: \$10 + AP Exam cost

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. Students will be encouraged to apply creative processes when developing computational artifacts and to think creatively while using simulations to explore questions that interest them. Rather than teaching a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts. The topics covered will be those set by the Advanced Placement Course Description for Computer Science Principles. Students who successfully complete this course usually elect to take the Advanced Placement examination in Computer Science Principles. This assessment comprises of two parts: the end-of-course AP Exam and the through-course AP assessment. The AP Computer Science Principles Exam will be a multiple-choice, paper and pencil exam in which students will demonstrate achievement of the course learning objectives. The through-course assessment comprises two AP Computer Science Principles performance tasks, which require students to explore the impacts of computing and create computational artifacts through programming.

ART AND MEDIA

A100: BEGINNING DRAWING 9 - 12

(Fine Arts Credit)

18 weeks/1 semester/0.5 credit

Fee: \$25.00

This class focuses on realistic drawings with understanding of the mechanics of light, shadow, and proportion. This approach allows beginning students to develop technical and compositional skills to make drastic improvements in their drawing abilities and more experienced artist to refine their skills. Drawing projects are taught through various techniques such as right brain drawing, grid drawing, value gradients, portrait art, and still life. Mediums covered may include graphite, charcoal, pen and ink, color pencil.

A102: 2D DESIGN 9 - 12

(Fine Arts Credit)

18 weeks/1 semester/0.5 credit

Fee: \$25.00

This is a beginning level class focusing on the principles (Harmony, unity, emphasis, movement, rhythm, pattern) and elements (Line, shape, form, value, texture, color, and space). Students will learn to see and think like an artist. Mediums covered may include pencil, watercolor, charcoal, tempera, etc. Students are expected to demonstrate consistent improvement in the application of skills taught, a positive attitude, and good work habits.

A105: BEGINNING CERAMICS 9 - 12

(Fine Arts Credit)

18 weeks/1 semester/0.5 credit

Fee: \$25.00

This course will provide an in-depth study of ceramics using stoneware clay. Techniques may include pinch, coil, slab, wheel throwing, and glazing. Students will be encouraged to create original designs while producing useful and/or decorative objects.

A210: VISUAL JOURNALING 9 - 12

(Fine Arts Credit)

18 weeks/1 semester/0.5 credit

Fee: \$25.00

This course serves as an introduction to using a sketchbook format to research, develop ideas, and experiment with a variety of media and techniques. Students will learn creative strategies that will guide their pursuit of inquiry as they learn from and contribute to the world of visual culture. This course will also help students build grit by normalizing the role that failure plays in artmaking because a sketchbook is a safe and appropriate platform to explore and master new content. There will be an emphasis on process vs. product.

A106: INTERMEDIATE CERAMICS 9 - 12**(Fine Arts Credit)****18 weeks/1 semester/0.5 credit****Fee: \$25.00****Prerequisite: Beginning Ceramics**

This course will provide an in-depth study of ceramics using stoneware clay. Students will build on previous skills and will produce ceramics by exploring various techniques which may include hand building, wheel throwing, glazing, and alternative firing techniques. Students will be expected to produce high quality projects.

A109: CRAFTS 9 - 12**(Fine Arts Credit)****18 weeks/1 semester/0.5 credit****Fee: \$25.00**

This introductory course is designed to give students creative experience in 2D and 3D art while learning the elements and principles of design that makes crafts successful. Class projects may include: batik, decoupage furniture, handmade books, paper Mache masks, painting, polymer clay, printmaking, and weaving. Students are graded on their use of the principles and elements of design, their craftsmanship, and their technical proficiency in each project.

A140: INTERMEDIATE CRAFTS 9 - 12**(Fine Arts Credit)****18 weeks/1 semester/0.5 credit****Fee: \$25.00****Prerequisite: Crafts**

Intermediate Crafts is a course intended for personally motivated students who can efficiently self-direct their own artistic inquiries. This course will serve as a continuation of exploring techniques learned in Crafts. Students will also learn creative strategies that will guide their pursuit of inquiry as they learn from and contribute to the world of visual culture.

A113: ADVANCED DRAW/PAINT 10 - 12**(Fine Arts Credit)****18 weeks/1 semester/0.5 credit****Fee: \$25.00****Prerequisite: Beginning Drawing or 2D Design**

This is a course for the advanced art student who wants to pursue individual interest in intensified studies in drawing and/or painting. Advanced techniques will be presented to give the student the opportunity to improve skills, explore various media combinations, and learn from peer critiques. Students will create original and high quality art. Students will be assessed on the originality, skills, and quality of their artwork.

A114: BEGINNING METALS 10 – 12**(Fine Arts Credit)****18 weeks/1 semester/0.5 credit****Fee: \$30.00****Prerequisite: Completion of two introductory art courses, 10th graders must have teacher permission**

Students will explore various metalsmithing techniques. Cutting, soldering, polishing techniques, Bezel Stone Setting, PMC & FIMO, Glass Fusion, and beading are just a limited listing of the different techniques explored. Many of the materials and equipment used are potentially dangerous to people with health concerns like breathing disorders or motor skills disorders.

A129: ADVANCED STUDIO ART 10 - 12**(Fine Arts Credit)****18 weeks/1 semester/0.5 credit****Fee: \$25.00****Prerequisite: Completion of two introductory art courses**

This class continues to offer advanced art students an opportunity to work on individual technique and approaches in a structured class setting. Students will be assessed based on the number of finished pieces produced in a specific time and participation in class critiques.

A505A-A505B: A. P. STUDIO ART 2D DESIGN A/B 11 – 12**A CU Succeed Course!****(Fine Arts Credit)****36 weeks/2 semesters/1.0 credit****Fee: \$30 plus testing fee****Prerequisite: Completion of two introductory art courses**

This course is designed to be the equivalent of a general entry-level college art course. Students who take this course should have a high level of motivation, diligence, commitment, and independence. In addition to the portfolio examination, students will be expected to create artwork outside class time, participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketch book, and prepare their work for showings. Students will be encouraged to develop a personal direction or “voice” in their work. To obtain college credit, students will prepare and submit an essay and portfolio that will be concentrates on three sections: Quality, Breadth, and Concentration. This essay and portfolio is due in the spring. Most of the first semester is focused on developing the Breadth section of the portfolio (10-12 pieces), which demonstrates a wide range of work. Second semester will focus on developing the Concentration section of your portfolio (10-12 pieces), focusing on an in-depth individual exploration of the voice of your art. Some class projects will be presented to guide study. Most of the second semester is self-guided. Each course is for one semester. You must sign up for both first and second semester.

A900: ART INDEPENDENT STUDY 10 - 12

(Fine Arts Credit)

18 weeks/1 semester/0.5 credit

Fee: \$25.00

Prerequisite: Completion of two introductory art courses, instructor approval required.

This course provides opportunities for self-motivated student who has successfully completed advanced level courses to explore in depth the media of their preference. Emphasis will be placed on portfolio preparation, and post-secondary options.

CTE 111: BEGINNING DIGITAL PHOTOGRAPHY 9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit/67.5 Contact Hours

Fee: \$20.00

Prerequisite: none

Beginning Digital Photography provides an overview of the elements of design, a basic understanding of rule of 3rd, and introduction into the basics of editing a photo. Students will be able to apply basic editing skills learned in Adobe Photoshop such as typography, image development, layout, scanning images, manipulating photographs, and creating digital artwork to projects that will create basic marketing and advertising projects. Class projects may include: postcards, magazine cover, book/movie illustration, and etc. Students will be assessed on their use of the elements of design, originality, workmanship, and technical proficiency in each project undertaken.

CTE 112: ADVANCED DIGITAL PHOTOGRAPHY

9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Fee: \$40.00

Prerequisite: Beginning Digital Photography

Advanced Digital Photography provides an in-depth understanding of the elements and principles of design, rule of 3rd, and editing a photo. Students will be able to synthesize their editing skills learned in Adobe Photoshop such as typography, image development, layout, scanning images, manipulating photographs, and creating digital artwork to projects that will create comprehensive marketing and advertising plans for companies. Class projects may include: 3D animation, Guerrilla advertisements, book/movie illustration, and etc. Students will be assessed on their use of the elements and principles of design, originality, workmanship, and technical proficiency in each project undertaken. Students will gain an appreciation of photography as a form of art and a critical mode of communication in the workplace.

CTE 110: BEGINNING VIDEO PRODUCTION 9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit/67.5 Contact Hours

Fee: \$20.00

Prerequisite: none

Video production provides an overview of the elements of design, basic understanding of the digital storytelling, and introduction in the production process. Students will be able to synthesize the roles of writer, producer, director and actors to explore the principles and techniques of videotape production including; camera operation, basic script writing, lighting, sound, and basic digital editing. Class projects will examine the pre-production, production, and post-production processes in detail; projects may include montage, interview, commercial, music video, and a pursuit. Students will be assessed on their use of the elements of design, originality, workmanship, and technical proficiency in iMovie, Garageband, and Final Cut Pro in each project undertaken.

CTE 115: ADVANCED VIDEO PRODUCTION 9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit/67.5 Contact Hours

Fee: \$30.00

Prerequisite: Beginning Video Production

Advanced Video Production provides a comprehensive exploration of the elements and principles of design, of the digital storytelling, and of the production process. Students will be able to synthesize the roles of writer, producer, director and actors to explore the principles and techniques of live production including; camera operation, basic script writing, lighting, sound, and basic digital editing. Class projects will examine the pre-production, production, and post-production processes in detail; projects may include producing live commercials, hosting live interviews and producing Warrior TV. Students will be assessed on their use of the elements of design, originality, workmanship, and technical proficiency in iMovie, GarageBand, Audacity, Final Cut Pro and other advanced editing tools in each project undertaken.

CTE 116: BEGINNING GRAPHIC DESIGN 9-12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Fee: \$25.00

Covering the basic theory and concepts of visual communication used to present information and promote a message. Students learn a basic understanding of the elements and principles of design. Skills taught are typography, image development, layout, scanning images, manipulating photographs and creating digital artwork. Students are exposed to graphics programs such as Adobe Illustrator and Adobe Photoshop. Class projects will include: logo design, poster design, brochure design and packaging design.

CTE 117: ADVANCED GRAPHIC DESIGN 9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Fee: \$25.00

Prerequisite: One of the following classes: Intro to Multimedia, Beginning Digital Photography, or Videography

Graphic Design takes students to an advanced understanding of theory and concepts of visual communication used to present information or promote a message to a consumer driven market. Students must have an understanding of the elements and principles of design. Students will be able to apply basic skills learned in previous classes such as typography, image development, layout, scanning images, manipulating photographs, and creating digital artwork to projects that will create comprehensive marketing and advertising plans for companies. Students will apply the understanding of Adobe Photoshop to take their digital designs to the next level and learn how to use computer software such as Adobe Illustrator and Adobe Dreamweaver.

CTE 9032: INTRODUCTION TO MULTIMEDIA 9 - 12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit/67.5 Contact Hours

Fee: \$10.00

Prerequisite: none

Introduction to Multimedia provides an overview of theory and concepts of visual communication used to present information or promote a message to a consumer. Students will be able to apply an understanding of the elements of design to develop interactive, computer-based media for presentational and instructional use. Students will be able to apply basic skills learned in previous classes such as typography, image development, layout, scanning images, manipulating photographs, and creating digital artwork to projects that will create comprehensive marketing and advertising plans for companies. Students will apply the understanding of Adobe Photoshop, Google Sites, Scratch, and Garageband to create their digital designs. Class projects may include: logos, posters, brochures, billboards, flyers, websites and packaging. Students will be assessed on their use of the elements of design, originality, workmanship, the ability to assess customer needs and technical proficiency in each project undertaken.

MUSIC AND THEATER

MU113A-MU113B: SYMPHONIC BAND A/B 9 - 12

(Fine art credit)

36 weeks/2 semesters/1.0 credit

Fee: \$50.00

Prerequisite: Permission of the instructor

Symphonic Band is open to 9-12 students who play a band instrument. First quarter involves performing parade and field marching music at various school activities. Second through fourth quarters involve performing a wide array of concert band literature at various school activities. Additional playing opportunities exist for students in district and state-wide performing groups. Students do have the opportunity to letter in band. In order for students who are enrolled in a music class to progress musically, it is highly recommended that they continually participate in a music performing group.

MU107A-MU107B: ADVANCED JAZZ BAND A/B 10 - 12

(Fine art credit)

36 weeks/2 semesters/1.0 credit

Fee: \$20.00

Prerequisite: Audition/concurrently enrolled in Symphonic Band

Jazz Band is composed of students that are concurrently enrolled in the Symphonic Band. These students perform a wide array of jazz, rock, swing, Latin, and ballad styles of music. The instrumentation of this group is structured and limited to that of a contemporary jazz band setting. In order for students who are enrolled in a music class to progress musically, it is highly recommended that they continually participate in a music performing group.

MU105A-MU105B: JAZZ BAND A/B 9 - 12

(Fine art credit)

36 weeks/2 semesters/1.0 credit

Fee: \$20.00

Prerequisite: Concurrently enrolled in Symphonic Band

Stage Band is composed of students that are concurrently enrolled in Symphonic Band. These students perform a wide array of jazz, rock, swing, Latin, and ballad styles of music. The instrumentation of this group is open to any band instrument. In order for students who are enrolled in a music class to progress musically, it is highly recommended that they continually participate in a music performing group.

MU103: COLOR GUARD 9 - 12**(Fine art credit)****18 weeks/1 semester/0.5 credit****Fee: \$50****Prerequisite: Permission of the instructor/Audition**

Students enrolled in Color Guard perform choreographed flag routines along with the music of the marching band. This group is responsible for adding color and visual interest to the marching band performances during first quarter. The second, third, and fourth quarters are dedicated to music in a winter guard setting.

MU109A-MU109B: PERCUSSION ENSEMBLE A/B 9 - 12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$50.00****Prerequisite: Permission of the instructor**

Students enrolled in Percussion Ensemble will learn music and technique specific to percussion instruments. Students may be asked to perform music along with the marching band and concert band.

MU131A-MU131B: STRING ORCHESTRA A/B 9 - 12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$20.00**

String Orchestra is a non-auditioned group designed for 9th graders with previous Orchestra experience, and 9th - 12th graders who want to try out a string instrument for the first time. Emphasis will be given to developing core Orchestral techniques, as well as ensuring that all incoming and new string students at FHS are set up for success in their future Orchestra endeavors. Repertoire in this ensemble is diverse in nature and covers many different musical styles and eras. Young artists in String Orchestra have the opportunity to letter and audition for district and state Honor Orchestras. Through participation in this group, students will develop skills of artistic expression, critical thinking, and musical literacy.

MU132A-MU132B: SYMPHONIC ORCHESTRA A/B 9 - 12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$20.00**

Symphonic Orchestra is an auditioned group open to 9th - 12th graders. Students will perform demanding material, drawing on a diverse collection of repertoire across many genres, ranging from string masterworks to modern compositions. In the past, this ensemble has been accepted into the American String Teachers Association State Festival, so students will participate and perform at a high level. Young artists in this class have the opportunity to letter in Symphonic Orchestra, as well as audition for district and state Honor Orchestras. Through participation in this group, students will develop skills of artistic expression, critical thinking, independent musicianship, and personal excellence.

MU133A-MU133B: CONCERT ORCHESTRA A/B 9 - 12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$20.00**

Concert Orchestra is a non-auditioned group open to 10th - 12th graders, welcoming all young artists who play a string instrument. Students will perform a wide array of Orchestra literature, with an emphasis on continued development of core string technique. Students have the opportunity to letter in Concert Orchestra, audition for district and state Honor Orchestras, and (for advanced students in the class) work on a secondary instrument. Through participation in this group, students will develop skills of artistic expression, critical thinking, and musical literacy.

MU 110: PERCUSSION ENSEMBLE HONORS**(Fine art credit)****18 weeks/1 semesters/.5 credit****Fee: \$20.00****Prerequisite: Audition/concurrently enrolled in Symphonic Band**

Percussion Ensemble Honors is composed of students that are concurrently enrolled in the Symphonic Band. These students perform along with the Symphonic Orchestra class during 2nd semester, thus gaining valuable full orchestra playing experience. Repertoire consists of a diverse range of music, including both traditional literature and more contemporary compositions. The instrumentation of this group is structured and limited to that of a contemporary full orchestra setting. In order for students who are enrolled in a music class to progress musically, it is highly recommended that they continually participate in a music performing group.

MU155A-MU155B: CHAMBER SINGERS 9 A/B**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$20.00**

Chamber Singers is the introductory 9th grade choir course at FHS. All Freshmen who are interested in choir will take this course fall semester, developing a strong foundation as they learn the expectations, procedures, and processes of the Frederick High School Choir program. For second semester, students will have the option of remaining at this current level or auditioning for an advanced level choir.

MU164A-MU164B: SELECT CHOIR A/B 10-12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Prerequisite: Audition /Teacher Recommendation****Fee: \$20.00****Concurrent enrollment in Concert Choir or Women's Ensemble highly suggested**

Varsity Blue is a jazz/show choir whose focus will be on Vocal Jazz, Broadway, and Pop music. They will use dance, movement, and choreography in all performances. The yearlong class is by audition only and is limited to twenty members. It is possible to earn a letter by taking this course. There will also be an activity fee at the beginning of each year for uniforms. Price may vary per year based on availability and company prices.

MU156A-MU156B: CONCERT CHOIR A/B 10-12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$20.00****Prerequisite: Audition /Teacher Recommendation**

This ensemble will focus on Chamber, Classic, and Large Group Pieces. Enrollment is capped at fifty students and will be filled based on auditions. This is a yearlong ensemble, and it's possible to earn a letter by taking this course. There will also be an activity fee at the beginning of each year for uniforms. Price may vary per year based on availability and company prices.

MU166A-MU166B: TREBLE CHOIR A/B 10-12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$20.00****Prerequisite: Audition /Teacher Recommendation**

This auditioned choir will focus on a variety of music written for four to six parts of women's voices. Enrollment for this yearlong class will be based on audition. It's possible to earn a letter by taking this course. There will also be an activity fee at the beginning of each year for uniforms. Price may vary per year based on availability and company prices.

MU 159A-MU159B: TENOR/BASS CHOIR A/B 10 - 12**(Fine art credit)****36 weeks/2 semesters/1.0 credit****Fee: \$20.00****Prerequisite: Audition /Teacher Recommendation**

Students will study a variety of music such as doo wop, Contemporary, classical and popular. Students may letter in this group and will have a uniform fee at the beginning of the year, based on uniform and company costs.

MU161: MIXED CHOIR 9 - 12**(Fine art credit)****36 weeks/2 semesters/1.0 credits****Fee: \$20.00**

This ensemble is open to all students and will serve as a place for anyone who wants a chance to sing and perform. We will focus on a wide variety of music and work on helping any level of student to improve and enjoy choral singing.

MU50A-MU150B: A CAPELLA / JAZZ CHOIR A/B 10 - 12**(Fine art credit)****36 weeks/2 semesters/1.0 credits****Fee: \$20.00**

FHS Jazz Choir is a jazz choir consisting of FHS's strongest vocalists. This ensemble focuses on more contemporary music, including (but not limited to) jazz and contemporary a cappella. They perform in a minimum of four concerts a year, as well as additional community and school functions. Membership is audition-based and a year-long commitment.

MU111: SMALL ENSEMBLES 9-12**(Fine art credit)****18 weeks/1 semester/0.5 credits****Fee: \$20.00**

In this music elective, students learn skills for playing, writing, and arranging popular music styles (both originals and covers), including but not limited to pop, rock, country, hip-hop, funk, and metal genres. Open to all students with or without musical experience. Students will develop basic abilities on drums, guitar, bass, and keyboards. They will then use these skills to collaborate as a class and play the music they love during the school day, as well as express themselves through songwriting and arranging. This is also a great way to extend learning from Piano or Guitar 1/2 classes and apply it in a group setting. Performance opportunities will be provided but will be optional.

MU210: HISTORY OF ROCK AND ROLL 9 - 12**(Fine art credit)****18 weeks/1 semester/0.5 credit**

Students will explore the history of Rock and Roll from the 1950's to present day. Work for the course will focus on a variety of projects dealing with the history of popular music. No previous music classes are required.

MU212: MUSIC AROUND THE WORLD 9 - 12

(Fine art credit)

18 weeks/1 semester/0.5 credit

Students will explore music as an art form in different cultural contexts in various global societies. Work for the course will focus on a variety of projects dealing with a wide range of music themes and genres. No previous music classes are required.

MU225: MUSIC THEORY 9 - 12

(Fine art credit)

18 weeks/1 semester/0.5 credit

Fee: Cost of Book

Students will learn basic concepts of music theory and music history. Projects will include writing musical compositions and a variety of projects on music history. Students will learn to use computer music notation programs. No previous music classes are required.

MU200: GUITAR 1 9-12

(Fine art credit)

18 weeks/1 semester/0.5 credit

Fee: Cost of Book

Guitar students will learn basic guitar skills and methods. Students will learn chord charts, identify parts of the guitar, and play various strum patterns. Students will also learn fundamentals of music theory such as rhythm, melody, and notation. Students will need to provide their own guitar and will need to purchase the required method book, "Hands on Training, First Year Guitar."

MU205: GUITAR 2 9-12

(Fine art credit)

18 weeks/1 semester/0.5 credit

Fee: Cost of Book

Prerequisite: Guitar or Teacher Recommendation

This class will continue to build on the skills learned in Guitar 1, with an emphasis in basic theory and music reading skills. The class will also help students to learn the basics of songwriting utilizing guitar skills learned from Guitar 1 and this course. Students will need to provide their own guitars, either electric or acoustic. No bass guitars will be permitted!

MU 500A- 500B: A. P. MUSIC THEORY A/B

A CU Succeed Course!

(Fine art credit)

36 weeks/2 semesters/1.0 credit

Fee: Cost of Book

Prerequisite: Music theory or permission of the instructor

A. P. Music Theory course is roughly the equivalent of a college freshman year theory course. The requirements of this course are based on the most recent A. P. Course Description of the College Board. This course will give students a foundation in music notation, intervals, scales, chords, rhythms/meter, phrase structure, form, and the terms used to describe these elements of music related to the major/minor tonal system. With this foundation, the course progression includes more complicated tasks such as the following: dictation of the melodic and harmonic materials, sight singing, the analysis of repertoire, including the study of the rhythmic and melodic interaction between voices; harmonic analysis of functional tonal passages, and modulation to closely related keys. Creative activities include the realization of a figured bass and a Roman numeral progression, as well as composition of traditional four-part chorale passages. The material is covered very rapidly so that it can all be fit into the course.

MU135: HAND BELL ENSEMBLE 9 – 12

(Fine art credit)

36 weeks/2 semesters/1.0 credit

Fee: \$20.00

Hand bell ensemble is open to any interested 9-12 students. The class will focus on learning proper playing techniques of hand bells. Students will perform traditional hand bell literature. Students will learn to read music notation and will be expected to attend all performances.

MU215 MUSIC TECHNOLOGY 10-12

(Practical Art)

18 weeks / 1 semester / 0.5 credit

Fee: \$20

In this course, students will gain experience working with creating, augmenting, editing, and publishing live and sequenced audio, using computer applications such as Garage Band, ProTools, Sibelius Notation Software, YouTube, and iTunes. Students will also become familiar with music technology equipment such as MIDI keyboards, microphones, mixers, and other tools used in recording studios. The majority of the class will be project based.

MU206: PIANO 9-12**(Fine art credit)****18 weeks / 1 semester / 0.5credit****Fee: \$20**

This course is designed for the student who wishes to acquire and develop piano keyboard skills. The course will introduce, reinforce, and develop the concepts of keyboard playing and music sight-reading, theory and technique. This class is appropriate to players of all levels.

MU220: MUSICAL THEATER 9-12**(Fine art credit)****18 weeks / 1 semester / 0.5credit****Fee: \$30**

Students in this course will receive advanced training for musical production. Students will master skills in acting, vocal performance, dance, and technical theatre. The culmination of this training will be displayed in the FHS Fall musical. *It's an expectation that students who wish to be a part of the FHS musical as a performer enroll in this class.* Students in this class will be required to participate in after school rehearsals and performances throughout the fall semester.

MU134: MUSICAL THEATER PIT ORCHESTRA 9-12**(Fine art credit)****18 weeks / 1 semester / 0.5credit****Fee: \$30**

Musical Theater Pit Orchestra is an auditioned/by-invitation group open to 9th - 12th grade instrumentalists. The group gives students the unique opportunity to provide the musical background for the actors and singers in the Musical Theater course. The material that young artists learn and perform in this course comes from Broadway shows and thus is at a professional level. There is a once-weekly after school rehearsal for the majority of the semester, and additional after school commitments as the show enters the production phase. Students should be ready for a powerful positive experience in creating the foundation of the Musical, and should know that consistent personal practice is expected of them. Through participation in this group, students will develop skills of artistic expression, critical thinking, independent musicianship, and advanced musical literacy.

LA400: DRAMA 1 9-12**(Fine arts credit)****18 weeks/1 semesters/0.5 credit**

This is an introductory course for students wishing to learn more about the craft of acting. The main focus of this class is to develop poise, concentration, and teamwork in both ensemble and individual assignments. Students will learn basic stage movement and terminology as well as a brief overview of theatre history. Beginning acting exercises, play reading and analysis, monologue and scene work round out the curriculum.

LA401: DRAMA 2 9-12**(Fine arts credit)****18 weeks/1 semesters/0.5 credit****Prerequisite: Drama 1 or Teacher Recommendation**

Students in this course will refine and practice the skills they learned in Drama 1. In addition, they will study the next-level of theatre history, appreciation, and acting skill. Specifically, students will be learning various acting theories, advanced character development, emotional connection, and other advanced acting techniques and practices. They will be mastering these skills through rigorous scene work and ultimately preparing for and performing a class play.

LA402: DRAMA ADVANCED 10-12**(Fine arts credit)****18 weeks/1 semesters/0.5 credit****Prerequisite: Audition**

Students in this course will receive advanced training for play production. Students will be expected to participate in the school productions and to attend after-school rehearsals. Emphasis will be on advanced acting technique, acting theories, college-readiness, audition prep, and play analysis. Continued study of voice, diction, and dialects as well as the exploration of a variety of acting styles will challenge students. Any student who wishes to be a part of either of the FHS spring plays must audition in December and be placed in this class.

LA405: STAGE TECHNICIAN BEGINNER 9-12**(Practical Art Credit)****18 weeks/1 semester/0.5 credit****Fee: \$20**

This course is designed to expose students to the essentials of stagecraft, including units on theatrical lighting, sound operation and design, theatrical carpentry, costuming and makeup, and the nature of theatrical performance. This course is also focused on how to safely use power tools and powered saws in theatrical fabrication. This course is repeatable.

LA406: STAGE TECHNICIAN INTERMEDIATE 10-12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Prerequisite: Teacher Recommendation

Fee: \$20

This course is designed to build upon the basics of technical theatre and dive deep into one of four technical areas: lighting and electrics, acoustics and audio, carpentry and scenic design, and performer-oriented stagecraft. Students will be expected to explore advanced technical topics in their chosen emphasis, propose technical designs, and become certified in specific stage roles.

LA407: STAGE TECHNICIAN ADVANCED 10-12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Prerequisite: Teacher Recommendation

Fee: \$20

This course is for the experienced technician and explores technical theatre as a career and artistic discipline. Students will be expected to design a production based on script interpretation, research postsecondary options in the field of technical theatre, and learn management roles, including those of the director, venue foreman, and stage manager. This course is repeatable.

LA410: PRODUCTION THEATER 10-12

(Practical Art Credit)

18 weeks/1 semester/0.5 credit

Prerequisite: Drama 1 or Beginning Stage Tech

Fee: \$20

This course takes the skills learned in the stage technology classes and puts them in action for our school productions. Production Theatre focuses on taking a script from page to stage and includes the construction, prop making, costuming, lighting, sound, and marketing of a show. While after school participation is not required for the course, it is expected that students in this class will be involved in the semester's after school productions. It is highly recommended that a student taking this class has prior experience with stage production.

HEALTH AND PHYSICAL EDUCATION

PE WAIVER

St. Vrain Valley School District provides the opportunity for a student to waive up to 1.0 physical education credit when specific criteria are met. Students who maintain full-time status (defined as a daily course schedule with 7 / 8 classes per semester) during all four years of high school and meet all graduation requirements may request waiver of an initial .5 physical education credit by successfully completing the following criteria:

- Two (2) SVVSD athletic programs at the varsity or junior varsity level (two different sports; same sport two seasons); or
- 72 hours during one semester of an appropriate, pre-approved, structured, and supervised activity outside of the school district.

Students with an advanced course schedule including enrollment in multiple academically rigorous courses, may also request an initial .5 physical education credit waiver when combined with one of the above criteria.

Students may waive an additional .5 physical education credit for a total of one (1) physical education credit in this same manner.

The activities to waive physical education credit may be met during any of a student's four years of high school. A student may not waive physical education credit if they have failed any courses and/or are in the process of credit recovery to meet graduation standards.

Whether or not a student has received a physical education waiver, they are still required to successfully complete 24.5 credits in order to earn their high school diploma.

The physical education waiver application may be acquired in the counseling office. Students must submit a written request for a waiver to their counselor beginning in January of their junior year.

Additional information on applying for and receiving approval of a physical education credit waiver can be found in District policy, IKF-R, Graduation Requirements-Physical Education Waiver.

H100: HEALTH 9 - 10

(Health Credit)

18 weeks/1 semester/0.5 credit

Required

When you're working towards independence, your decisions now will affect your future. Take Health and learn strategies that may help you better control what happens to you. This course is designed for students to discuss their ideas and opinions about issues related to teens. Some of the topics covered are: reproduction, abstinence, birth control, sexually transmitted diseases, destructive behaviors, communication skills, dating, family and friend relationships and problem solving.

PE 100: HIGH SCHOOL CORE PE 9

(PE Credit)

18 weeks/1 semester/0.5 credit

This foundational course for freshmen is required as a prerequisite prior to enrolling in other Physical Education courses. In High School, instructional time should focus on six critical areas: (1) Participating at a competent level in a variety of lifelong physical activities and understanding the cognitive impact of movement, (2) Applying rules, principles, problem-solving skills and concepts to traditional and nontraditional movement settings, (3) Establishing goals based on fitness assessment data as well as developing, implementing, achieving, and monitoring individual health and fitness plans, (4) Participating regularly in health-enhancing physical activities, (5) Demonstrating responsible behavior and respect for others as well as collaboration, cooperation, and leadership skills, (6) Understanding the risks and safety factors that may affect participation in physical activity and demonstrating knowledge of safety and emergency response procedures. Activities may include but are not limited to: resistance training, plyometrics, interval training, circuit training, Zumba, yoga, basketball, soccer, flag football, speedball, softball, ultimate frisbee, rugby, lacrosse tennis, badminton, speedminton, volleyball, golf, and disc golf. These concepts and associated skills are aligned with the Colorado Academic Standards for Physical Education, incorporating 21st century skills and postsecondary and workforce readiness competencies.

PE 153: UNIFIED PHYSICAL EDUCATION

(PE Credit)

18 weeks/1 semester/0.5 credit

Prerequisite: High School Core PE 9

Unified Physical Education provides a unique opportunity for students with and without disabilities to come together through ongoing educational and physical activities, using the power of ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students. Students will be participating in lifetime activities, physical fitness and sport. Students will work together to increase competence and confidence in a variety of physical activities.

PE 101: LIFE FITNESS

(PE Credit)

18 weeks/1 semester/0.5 credit

Prerequisite: High School Core PE 9

This class is designed for students who want to explore a variety of basic options for improving and maintaining their individual fitness levels. The goal is to give students both the knowledge and physical skills to develop and continue good lifetime fitness habits. Each student will develop personal fitness plans and goals. Activities may include but are not limited to power walking, aerobics, circuit training, and weight training.

PE160: FITNESS I: 9 - 12

(PE Credit)

18 weeks/1 semester/0.5 credit

Fee: \$10

This course provides students with an overview of individual sports. Students learn about a variety of sports, yet do an in-depth study simultaneously. Activities could include; hiking, skateboarding, swimming, biking, golf, tennis, jogging, power walking and more. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to each sport. Students also learn about the components of fitness, the FITT principles, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments and participate in weekly physical activity.

PE 150: GIRLS FITNESS 1 9-12

(PE Credit)

18 weeks/1 semester/0.5 credit

Females Only

This course is designed for an intermediate-level student interested in aerobic fitness activities. Topics may include, but are not limited to: personal goal setting and reflection, nutrition, myths and misconceptions, body image, muscle groups. Activities may include, but are not limited to: Tae Bo, step aerobics, kick-boxing, Pilates, circuit training, weight training, jump rope, plyometric, and games which require cardiovascular fitness/strength.

PE 131: Self Defense/Conditioning

(PE Credit)

18 weeks/1 semester/0.5 credit

Fee: \$10

Students will be introduced to the basic skills of self defense. Course will include, but not limited to, escapes from your back to your feet, defending against strikes and striking with your hands and feet. Students will participate in various training methods and be tested throughout the semester in the five components of physical fitness. This course will also include CPR, AED and First Aid training. This course may be taken ONE time per school year. Students may only repeat this course with instructor approval.

PE 114: NET AND TARGET 9-12**(PE Credit)****18 weeks/1 semester/0.5 credit**

Instructional time should focus on six critical areas: (1) Participating at a competent level in a variety of lifelong physical activities and understanding the cognitive impact of movement, (2) Applying rules, principles, problem-solving skills and concepts to traditional and nontraditional movement settings, (3) Establishing goals based on fitness assessment data as well as developing, implementing, achieving, and monitoring individual health and fitness plans, (4) Participating regularly in health-enhancing physical activities, (5) Demonstrating responsible behavior and respect for others as well as collaboration, cooperation, and leadership skills, (6) Understanding the risks and safety factors that may affect participation in physical activity. Activities may include but are not limited to: tennis, badminton, speedminton, volleyball, golf, and disc golf. These concepts and associated skills are aligned with the Colorado Academic Standards for Physical Education, incorporating 21st century skills and postsecondary and workforce readiness competencies.

PE113: INVASION & FIELD 9 - 12**(PE Credit)****18 weeks/1 semester/0.5 credit**

In High School instructional time should focus on four critical areas: (1) *Participating at a competent level in a variety of lifelong physical activities and understanding the cognitive impact of movement*, (2) *Participating regularly in health-enhancing physical activities*, (3) *Demonstrating responsible behavior and respect for others as well as collaboration, cooperation, and leadership skills*, (4) *Understanding the risks and safety factors that may affect participation in physical activity and demonstrating knowledge of safety and emergency response procedures*. Activities may include but are not limited to: basketball, soccer, flag football, speedball, softball, ultimate Frisbee, rugby, and lacrosse. These concepts and associated skills are aligned with the Colorado Academic Standards for Physical Education, incorporating 21st century skills and postsecondary and workforce readiness competencies.

PE141: GAME ON 9 - 12**(PE Credit)****18 weeks/1 semester/0.5 credit**

Instructional time should focus on four critical areas: (1) Participating at a competent level in a variety of lifelong physical activities and understanding the cognitive impact of movement, (2) Applying rules, principles, problem-solving skills and concepts to traditional and nontraditional movement settings, (3) Demonstrating responsible behavior and respect for others as well as collaboration, cooperation, and leadership skills, (4) Understanding the risks and safety factors that may affect participation in physical activity. Activities may include but are not limited to: tennis, badminton, speedminton, volleyball, golf, disc golf, basketball, soccer, flag football, speedball, softball, ultimate Frisbee, rugby, and lacrosse. These concepts and associated skills are aligned with the Colorado Academic Standards for Physical Education, incorporating 21st century skills and postsecondary and workforce readiness competencies:

PE108: IRON WORKS I 9 - 12**(PE Credit)****18 weeks/1 semester/0.5 credit****Fee: \$5.00**

This is an introductory-level course designed to familiarize students with weight room procedures, safety precautions, and various lifting techniques. This course may include but is not limited to strength training/muscular endurance through the use of free- and machine-weights, plyometrics, speed training, agility development and fitness activities.

PE109: IRON WORKS II 9 - 12**(PE Credit)****18 weeks/1 semester/0.5 credit****Prerequisite: Ironworks I or Instructor Approval.****Fee: \$5.00**

This is an intermediate to advanced level course designed to familiarize students with advanced weight lifting techniques. Focusing on power lifts including deadlifts, bench press, clean and jerk and squats, this class is especially appropriate for students interested in powerlifting and varsity athletes seeking to improve functional strength and fitness. Other focus areas will include plyometrics, agility training, and monthly physical challenges. This level course is strenuous; therefore, students must have a strong desire to increase overall body fitness and composition.

PE 132: DANCE 1 9 - 12**(PE Credit)****18 weeks/1 semester/0.5 credit****Fee: \$10**

The focus is on experiencing physical fitness through a wide range of fundamental dance skills including, but not limited to Hip-Hop, Funk, Jazz-Aerobic, Kickboxing, Salsa and other various styles of dance and fitness. Using these techniques, the student will improve their strength, cardiovascular endurance and flexibility enhancing their overall knowledge of body awareness and health. Advanced classes, level II, will learn dance and fitness fundamentals /advanced technique, Choreography & Performance, Dance Kinesiology, Dance & Fitness History & Vocabulary, Lyrical, Ballet, Latin, dance and fitness fundamentals / advanced technique, Choreography & Performance, Dance Kinesiology, Dance & Fitness History & Vocabulary.

ADDITIONAL ELECTIVES

(Teachers aides are not determined until the beginning of each semester. When registering for an Assistant position in Infinite Campus please list as an alternate.)

MS123: ASSISTANT MEDIA 10 - 12

(General elective credit only)

Permission of Librarian Required

Students will learn to assist teachers and fellow students in locating information and specific items in the library collection. Enrollees will assist with circulation of resources and with maintaining organization within the collection. They may also learn some media production and equipment operation skills.

MS122: ASSISTANT COUNSELING 10 - 12

(General elective credit only)

Permission of Counseling Office Staff Required

Students will assist the counseling office with daily tasks.

MS162A-MS162B: STUDENT COUNCIL A/B 9 - 12

(General elective credit only)

18 weeks/1 semester/0.5 credit

Prerequisite: Student Council Officer or Teacher Recommendation

Student Council is a class designed to train student leaders and to provide time to plan and carry out student activities. Topics covered in the class include: Goal Setting, Time Management, Publicity, Evaluation, Communication, and Leadership Styles. Students also get practical experience in planning a wide variety of activities. Students will also be required to complete 10 hours per semester of community service. Evaluation is based on participation, committee work, project completion, assignments, and community service.

MS205: STUDENT POLICE ACADEMY 10 - 12

(General elective credit only)

18 weeks/1 semester/0.5 credit

This course has been designed to better acquaint students with the operation of the Frederick Police Department and other facets of modern law enforcement. Representatives from the police department and other professionals within the criminal justice present topics similar to those covered in the Colorado Law Enforcement Training Academy. These include patrol and investigations, search and seizure, vice and narcotics, gangs, emergency driving, K-9, S.W.A.T., and the F.B.I. The students will have a better understanding of the law enforcement role in the criminal justice system and law enforcement as a career field.

LA429A-LA429B: YEARBOOK A/B 10-12

(Practical Arts credit)

36 weeks/2 semesters/1.0 credit

Prerequisite-Teacher Permission

The primary goal of Yearbook is production of the school yearbook. The staff is made up of students who work hard, who have good attendance and who are highly motivated to plan, produce and finance the yearbook. Evaluation is based on the ability of the staff to produce quality work on a deadline. To be considered for yearbook, students must get two recommendations from teachers extolling the students' work ethic and attendance. Students will also participate in fund raising activities and book sales to pay for the production of the yearbook.